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METEOROLOGICAL DATA REPORT 20301A Assault Breaker Missile No. FTV-1 Round No. VIGI 31 March 1981

by

White Sands Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

DTIC ELECTE JUN 3/4 1981

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOC	CUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	4 4	3. RECIPIENT'S CATALOG NUMBER
DR 1171	AD A100 53	
4. TITLE (end Subsiste) / 20301A Assault Break( Missile Number FTV-1		5. TYPE OF REPORT & PERIOD COVERED
Round Number VIGI		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(a)	: .	8. CONTRACT OR GRANT NUMBER(+)
White Sands'Meteorol	ogical Team	DA Task 1F665702D127402
9. PERFORMING ORGANIZATION N	AME AND ADDRESS	10 PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
	/	AREA & WORK UNIT NUMBERS
		14/
11. CONTROLLING OFFICE NAME US Army Flectronics	AND ADDRESS Research & Development Cmd	T2. REPORT DATE
Atmospheric Sciences	s Laboratory	13. NUMBER OF PAGES
	Range, New Mexico 88002	46
14. MONITORING AGENCY NAME &	ADDRESS(If different from Controlling Office)	15. SECURITY CLASS. (of this report)
US Army Electronics Adelphi, MD 20783	Research & Development Cmd	UNCLASSIFIED
Aderpitt, No 20703		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (a	( thie Report)	Accession For
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17. DISTRIBUTION STATEMENT (O	f the ebetract entered in Block 20, if different fro	Distribution/
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18. SUPPLEMENTARY NOTES		
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19. KEY WORDS (Continue on revere	e elde if necessary and identify by block number,	)
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20. ABSTRACT (Continue on reverse	side if necessary and identify by block number)	•
Meteorological data	gathered for the launching o	f the 20301A Assault Breaker,
Missile Number FTV-1	l, Round Number VIGI, present	ed in tabular form.
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#### INTRODUCTION

20301A Assault Breaker, Missile Number FTV-1	Round Number V1G1 ,
was launched from <u>LC-33</u> , White Sands Missil	e Range (WSMR), New
Mexico, at <u>0918</u> on <u>31 March 1981</u> . T was <u>0855</u> .	The scheduled launch time
DISCUSSION	
Meteorological data were recorded and reduced by the Team, Atmospheric Sciences Laboratory (ASL), White Mexico. The data were obtained by the following met	Sands Missile Range, New
1. Observations	
a. Surface	
(1) Standard surface observations	
ature (°C), relative humidity, dew point	restion
and speed, and cloud cover were	set site at T-O
minutes.	
	on from one anemometer was
w level wind data were obtained	from Single Theodolite
SITE AND ALTITUDE	
LC-33 1260 Meters and 66	60 Meters.

(b) Air structure data (rawinsonde) were collected at the following met sites. Data were collected from surface to as high as possible in 500-foot increments.

SITE AN	D TIME
WSD	0918
LC-37	0755
HMN	0655
Ja l	06ა5
Jal	0918

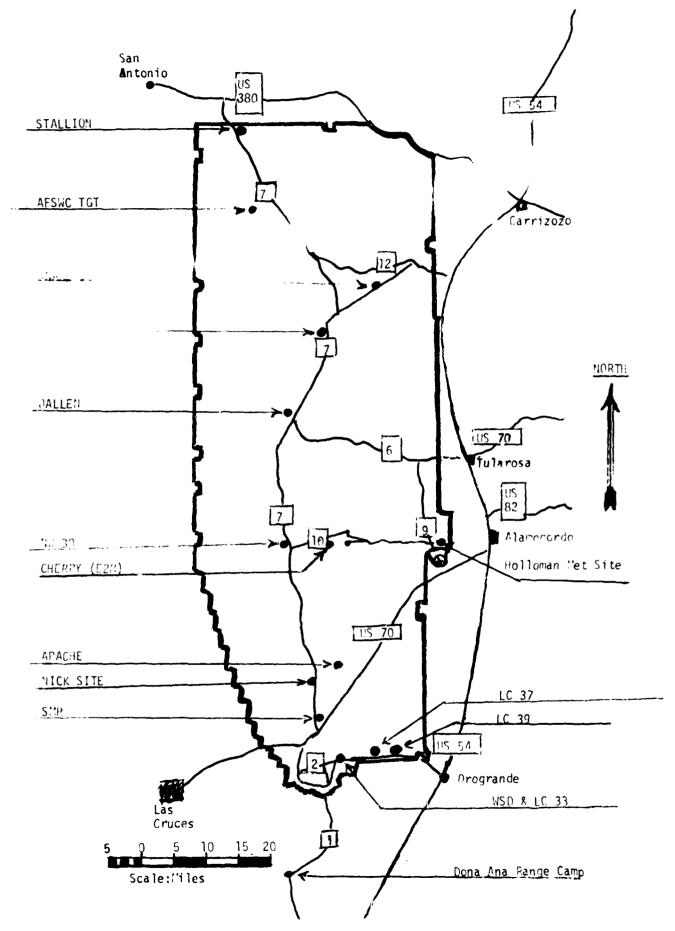


TABLE 1. Surface Obsrevations taken at 0918 MST, 31 March 1981, at LC-33 (E&A) 20301A Assault Breaker, Missile Number FTV-1, Round Number V1G1.

ELEVATION	3983	r T/MSL
PRESSURE	882.4	MBS
TEMPERATURE	16	°c
RELATIVE HUMIDITY	31	
DEW POINT	-01	ОС
DENSITY	1059	GM/M <sup>3</sup>
WIND SPEED	12	KTS
WIND DIRECTION	015	DEGREES
CLOUD COVER	CLEAR	

PROJECT SURFACE OBSERVATION

TABLE	2							STATION	JALLEN		
DATE 31	MARCH	1981	,					X=450,491,60	Į.	Y= 464,023.05 H= 4053.00	= 4053.00
11ME 다 S 다	PRESSURE Mbs	TEMPERATURE of OC	TURE OC	DEW POINT OF OC		PELATIVE HUMIDITY %	DENSITY gm/m <sup>3</sup>	DIRECTION degs Tn	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0842	879.5		13.5		-13.2	14	1066		CALM		20
2160	879.6		13.9		-10.9	17	1064	270	02		20
0942	879.8		15.1		-11.3	15	1960	240	03		20

					CI DIID	<u>س</u>				
TRUCTIONS	1st	LAYER		2n	d LAY	FR	1 3r	d LAYE	8	REMARKS
TO VISIBILITY	AMT   TYPE   HGT	YPE   h	157	AMT	TYPE	AMT   TYPE   HGT	ANT	AMT TYPE HGT	НСТ	
		_					_			
										CLEAR
	-	-					_			
										CLEAR
	_	+								
										CLEAR

PSYCHROMETRIC COMPUTATION

TIME:	0842	0912	0942	
DRY BULB TEMP.	13.5	13.9	15,1	
WET BULB TEMP.	03.5	1.40	04.6	
WET BULB DEPR.	10.0	8.60	10.5	
DEW POINT	-13.2	-10.9 [-11.3	-11.3	
RELATIVE HUMID.	14	17	15	
	70 00 00 20 20 20 20 20 20 20 20 20 20 20		00	5

**DELAS-MS-MT-WS** FORM 12 01 NOV 1980

OBSERVER VERIFIER Supersedes AMSEL-BL-MT-WS Form 12, 28 Aug 72 and all project surface Observation for.

TAB	LΕ		3
		•	

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	8.90 <b>4</b>		POLE #2 X485,874 Y186,012 H4033.57 53.0 ft.	.93 .00		POLE # X485,87 Y186,110 H4063.9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	017	14	-30	022	12	-30	026	15
-20	027	14	-20	011	10	-20	035	15
-10	013	14	-10	027	09	-1)	029	15
0.0	028	12	0.0	018	. 09	0.)	027	16
+10	036	09	+10	025	08	+10	033	14

TABLE 3a LC-33 METEOROLOGICAL TOWER ANEMUMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 X484,982.64		H3983.00 (base)	LEVEL #2, 62 X484.982.64,		H3983.00 (hase)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	027	11	- 3()	030	15
-20	021	09	-20	038	15
-10	019	10	-10	012	15
0.0	015	12	0.0	015	13
+10	009	12	+10	018	14

LEVEL #3, 10 X484,982.64,	02 FEET Y185,057.7	3, H3983.00 (base)	LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)				
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED ETS		
-30	022	09	<b>-</b> 30	016	12		
-20	М	11	-20	010	13		
-10	018	09	-10	010	12		
0.0	024	09	0.0	018	12		
+10	008	11	+10	015	14		

### PILOT BALLOON MEASURED WIND DATA

COORDINATES (WSTM)   X - 486,037.24	LYREF	4									
NOTE: WIND DIRECTIONS ARE REFERENCED TO HEIGHTS ARI METERS AGL X OR FEET AGL  HEIGHT DIRECTION SPEED DEGREES KTS SFC 015 11 60 014 12 12 120 013 13 13 240 012 12 300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 9900 288 18 960 284 20 1020 280 276 19 1140 272 18 1200 268 18 1200 268 18 1200 268 18 1200 268 18 1200 268 18 1200 268 18	RELEASED	FROM	C-33		DATE	31 March	_1981			TIME0908	MST
HEIGHTS ARE METERS AGL X OR FEET AGL		COC	RDINATE	S (W	STM) X=	486.037.24	Υ	18	33,350.16	H= 39	77.30
HEIGHT   DIRECTION   SPEED   HEIGHT   DIRECTION   AGL   DEGREES   KTS	NOTE: W	IND DIRECTI	ONS ARE	RE F	ERENCED T	0					
AGL         DEGREES         KTS         AGL         DEGREES         KIS         AGL         DEGREES         KTS           sfc         015         11         0	HEIGHTS	ARE METERS	AGL X	OR	FEET AGL_	•					
sfc         015         11           60         014         12           120         013         12           180         013         13           240         012         12           300         012         13           360         010         14           420         360         12           480         349         12           540         336         11           600         324         12           660         313         12           720         305         14           780         298         15           840         292         16           900         288         18           960         284         20           1020         280         20           1080         276         19           1140         272         18           1200         268         18											
60	:				AGL	DEGREES	KIS		AGL	DEGREES	KTS
120     013     12       180     013     13       240     012     12       300     012     13       360     010     14       420     360     12       480     349     12       540     336     11       600     324     12       660     313     12       720     305     14       780     298     15       840     292     16       900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18		1									
180     013     13       240     012     12       300     012     13       360     010     14       420     360     12       480     349     12       540     336     11       600     324     12       660     313     12       720     305     14       780     298     15       840     292     16       900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18	!		1		}					<u> </u>	<del> </del>
240     012     12       300     012     13       360     010     14       420     360     12       480     349     12       540     336     11       600     324     12       660     313     12       720     305     14       780     298     15       840     292     16       900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18	i	Ī	Ī		! 						
300     012     13       360     010     14       420     360     12       480     349     12       540     336     11       600     324     12       660     313     12       720     305     14       780     298     15       840     292     16       900     288     18       960     284     20       1020     280     20       1140     272     18       1200     268     18	!	Ĭ	·								
360       010       14         420       360       12         480       349       12         540       336       11         600       324       12         660       313       12         720       305       14         780       298       15         840       292       16         900       288       18         960       284       20         1020       280       20         1080       276       19         1140       272       18         1200       268       18											
420       360       12         480       349       12         540       336       11         600       324       12         660       313       12         720       305       14         780       298       15         840       292       16         900       288       18         960       284       20         1020       280       20         1140       276       19         1140       272       18         1200       268       18	I	T			<del></del>						
480       349       12         540       336       11         600       324       12         660       313       12         720       305       14         780       298       15         840       292       16         900       288       18         960       284       20         1020       280       20         1080       276       19         1140       272       18         1200       268       18		1									
540     336     11       600     324     12       660     313     12       720     305     14       780     298     15       840     292     16       900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18									<del></del>		
600     324     12       660     313     12       720     305     14       780     298     15       840     292     16       900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18											
660       313       12         720       305       14         780       298       15         840       292       16         900       288       18         960       284       20         1020       280       20         1080       276       19         1140       272       18         1200       268       18	} <del></del>		1								
720       305       14         780       298       15         840       292       16         900       288       18         960       284       20         1020       280       20         1080       276       19         1140       272       18         1200       268       18	·	<del>+</del>	+								<del> </del>
780       298       15         840       292       16         900       288       18         960       284       20         1020       280       20         1080       276       19         1140       272       18         1200       268       18		·									
840     292     16       900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18	<u> </u>	<del> </del>	<del> </del>		}						<del> </del>
900     288     18       960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18	· <del></del>	<del></del>	<del></del>		ļ						
960     284     20       1020     280     20       1080     276     19       1140     272     18       1200     268     18			· <del>-</del>		 						
1020     280     20       1080     276     19       1140     272     18       1200     268     18	<u> </u>	<del></del>	<del></del>								
1080     276     19       1140     272     18       1200     268     18	\   . <del></del>	<del></del>	<del>+</del> -								
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## PILOT BALLOON MEASURED WIND DATA

FLEASED	FROM LO	C-33	DA1	E 31 March	1981		_TIME0918_	MST
	CC	ORDINATES	S (WSTM)	486,037.2	γ <u>-</u>	186,350.16	H= 397	7.30
OTE: WI	NO DIRECT	TIONS ARE	REFERENCED	т0				
IGHTS A	ARE METERS	AGL_X	OR FEET AGI	·`				
HEI <b>G</b> HT AGL	DIRECTION DEGREES	N SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
sfc	015	12			†			11111
60	010	11	,					
120	007	11					* · · · · · · · · · · · · · · · · · · ·	<del> </del>
180	005	10	}					1
240	003	10						
300	001	11	1					
360	357	11						
420	345	10						
480	331	10						
540	319	11						
600	308	12						
660	299	13						
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SIGHIFICANT LEVEL DATA	09000>0214 VHITE SANDS	TABLE 6
	STATION ALIITUDE 3989.00 FEET MSL 31 MAR. 81 0918 HRS MST	ASCENSION NO. 214

GEODETIC COOKDINATES 32.40043 LAT DEG 106.37033 LON DEG

REL.HUM. PERCENT	25.0 28.0 30.0 31.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 2	
TEMPERATURE IR DEWPOINT REES CENTIGKADE	1	
JEMPI AIR Degkees	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
GEOMETRIC ALTITUDE , MSL FEET	3989.0 4515.3 5015.3 6055.3 6055.2 10232.9 11071.7 11071.7 110816.6 22103.0 22103.0 22103.0 22103.0 22103.0 30708.5 34619.3 34619.3 34619.3 43466.3 43466.3 43466.3 43466.3 43466.3 6559.3 6559.3 6559.3 670.3 670.3 670.3	8008
PKESSURE MILLIBARS	882.0 8655.0 655.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0 7759.0	· -

STATION ALITTUDE 3989.00 FEET MSL 31 MAR. 81 0918 HRS MST ASCENSION NO. 214

SIGNIFICANT LEVEL UATA

6EODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

REL.HUM. PLRCENI TABLE 6 cont' IEMPERATURE AIR DEWPOINT DFGREES CENTIGRAIG 0900020214 WHITE SANDS -47.0 -47.0 -45.8 -41.5 -37.0 -36.4 PRESSURE GEOMETRIC ALTITUDE MILLIBARS NSL FEET 30.0 78649.4 26.0 61958.7 23.6 84087.0 20.0 87769.3 15.2 93995.0 10.0 103604.4 9.6 104543.5

		i.	<u>.</u>	_	UPPER AIR DAT	JATA			
I MAR. HI		3989.00 FECT MSL 0918 HRS MST	MST MST		MHITE SANDS	±		132 (	GEODETIC COOKDINATES 32,40043 LAT DEG
A SEPSION NO.	c 14		<u>;</u>			<u>.</u>		106.	106.37033 LOW DEG
· JAK TRIC	PRESSURE	TEM	TEMPERATURE	REL.HUM.	DENSITY	SPEFU OF	WINL DAIA	4	INUEX
1100		AI	DEWPOINT	PERCENT	<u>ي</u>	SOUNT)	DIRECTION	SPEEU	OF.
+ 5 6 5	HILLIDARS	DEGREES	CENT IGRADE		METER	KNOTS	DEGREES (IN)	KNOTS	REF RACTION
0.644	862.0	16.0	0.4-	25.0	1060.6	663.1	30.0	8.9	1.000257
0.00	981.6	15.9	0 • 1/-	25.1	1060.4	663.0	29+3	8.9	1.000257
0.00	865.9	12.7	-5.4	27.9	1053.4	659.3	358.4	9.3	1.000254
0.00	850.3	11.9	-5.1	30.0	1037.2		336.2	11.8	1.000251
٠. ن	834.9	11.1	-5.3	31.1	1021.3	4.7.4	322.9	15.5	1.000247
0.0	819.7	6•6 6	0.9-	32.0	1007.0		310.0	17.8	1.000243
3 6	7004.7	200	-6.6	30.00 0.00 0.00	992.8	654.0	7.06.7	× 0 0 0	1.000235
= =	77.25	) H	C • 6 •	0 4 4 4	965.1		285°	23.5	1.000231
	761.4	5.1	-8-7	35.9	951.6		281.4	25.2	1.000227
	741.2	4.1	-11.4	31.3	937.7		279.9	27.5	1.000222
	733.4	3.1	-14.5	26.0	923.9	647.8	278.2	29.6	1.000216
•	719.7	1.9	-17.6	21.7	910.7		276.0	31.5	1.000211
•	700.5	ស.	-19.5	20.5	894.5		275.5	32.9	1.000207
• •	6.769	D .	-21.1	19.0	884.2		275.1	32.B	1.000203
~~ <b>.</b>	D.F.C.	9•-	-22-4	17.3	86H•4		2/4.5	32.9	1.000199
. 7	2000	-1.5	-23.4	16.9	854.6		274.7	33.5	1.000195
	1929	-2.6	-24.3	16.9	841.4		2/4.1	0.00	1.000192
2000	<b>3</b> • 1 • 5	7 • 5 -	-25•3	16.8	824.4	639.6	2/1/6	7.00	49100U-I
3075	0.0	D C	2.92	10.0	813.6	6.38.0	5.602	0 . 0 .	1.000163
00001		7.5	1.28-1	10.4	790.6		267.5	38.0	1.000179
14500.	5	-8-1	0.62-	9.91	77A.4		265.6	36.8	1.000176
15000.6	0.	-9.5	-30.0	16.5	766.5		262.3	35.1	1.000173
15500.6	. :		-30.9	16.4	754.7		261.5	35.7	1.000171
16000.0	ę.		-31.9	16.4	743.1	-	262.6	37.9	1.000168
16500.0			-32.8	16.3	731.7		262.5	39.6	1.000165
17600.0		-13.5	-33.4	16.2	700.5	527.8 126.5	262.4		1.000160
18000.0		-15.7	-35.6	16.1	698.6		261.4	£2.5	1.000157
18500.0		-16.8	-36.6	16.0	687.9		260.6	45.1	1.000155
19000.0	•	-17.9	-37.5	16.0	677.1	_	200.0	47.3	1.000152
19500.0	<b>5</b>	-18.8	-38.3	16.0	665.9	_	520.6	48.0	1.000150
<00000	·	8.61.	-39.1	16.0	624.9		259.5	46.8	1.000147
<0.0000	<b>3</b> .	1.0.	-39.9	16.0	644.1	619.0	258•B	ر . د . د . د . د . د . د . د . د . د . د	1.000145
<1000.0		<b>6</b>	9.05-	16.3	633.6		25/11	· · · · · · · · · · · · · · · · · · ·	2*T00U-1
<1500.0	7 3	>	9.00	18.6	624.2	610.4	257.5		1.000138
22500.0			0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	F 000	60.40		257.0	10° 83°	1.000136
0.000.0	4000		0 - 1 - 1	6.07	1.465		257.0	51.0	1.000133
2.2003		•	> , > , > , r	> 1 1	4, 1	• • • • • • • • • • • • • • • • • • • •	,		1 1 1

PRESURE   TEMPLIAN   TABLE   CONT   104.3703 LDN	STATION AL	STATION ALCITUDE 398		. ;			<b>.</b>		ייבייטוניין	GEODETIC COOKDINATES
PRESSURE TEMPLIAN ULLIAND DENSITY SFFFU OF WIND DATA IN LILLUARS DEGREES (LILL HUM DENSITY SFFFU OF WINDS DATA   1980   1	1 2 2 2 3 2 3 2 4 2 7 2	214	1918 nks	Ž		WHITE SAN	ont'		32. 106.	40043 LAI DEG 37033 LON DEG
HILLIAMRS DEGREES (LMII). METER KNOTS DEGREES(TMI KNOTS REFRAULT)  401.9 -27.4 -44 4.0 563.7 610.8 257.1 54.0 1  349.8 -29.5 -45 4.0 565.3 617.4 257.1 60.0 1  349.8 -29.5 -46 4.0 565.3 617.4 257.1 60.0 1  340.4 -31.4 -47.1 55.4 610.8 257.4 59.0 60.0 1  340.4 -31.4 -47.1 55.4 610.8 257.4 59.0 60.0 1  340.5 -38.6 -46.4 6.0 55.1 60.0 255.0 60.0 1  340.5 -38.6 -36.1 6.0 6.0 5.0 60.0 1  340.5 -38.6 -36.1 6.0 60.0 255.0 60.0 1  340.5 -38.6 -36.1 6.0 60.0 255.0 60.0 1  340.5 -38.6 -36.1 6.0 60.0 255.0 60.0 1  340.5 -38.6 -36.8 6.0 60.0 255.0 60.0 1  340.5 -46.0 6.0 6.0 60.0 1  340.6 -46.0 6.0 6.0 60.0 1  340.7 -40.0 6.0 60.0 1  340.8 -36.0 6.0 60.		PRESSURE	TEMP AIR	ERAT . DEM		DENSITY GM/CUBIC	SPFFIJ OF	WIND DA	TASPEED	INUEX
#11.9 -27.4	Σ	ILLIUARS		CENTLOS		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
99.6.5         -45.1         40.0.3         -28.7         56.6         56.7         56.6         56.6         56.6         56.6         56.6         56.6         56.6         56.6         56.6         56.6         56.6	6	411.9	-27.4		3°.	583.7		257-1	54.0	1.000131
394.8         -294.9         -464.1         4.3         556.3         567.7         609.4         19.0           386.4         -314.4         -47.4         4.0         604.4         604.4         19.0         604.4         19.0         604.4         19.0         604.4         19.0         604.4         19.0         604.4         19.0         604.4         19.0         60.6         19.0         60.0         19.0         60.0         19.0         60.0         19.0         60.0         19.0         19.0         19.0         19.0         19.0         19.0         19.0 </td <td>0</td> <td>400.3</td> <td>-28.5</td> <td> 0.41</td> <td>0 <b>•</b> н</td> <td>574.2</td> <td>_</td> <td>257.2</td> <td>56.6</td> <td>1.000129</td>	0	400.3	-28.5	0.41	0 <b>•</b> н	574.2	_	257.2	56.6	1.000129
386.4         -31.4         -47.4         55.4         60.4         60.4           376.2         -32.4         -48.4         60.4         60.4         60.4           370.0         -34.4         -50.4         60.5         60.3         60.4           370.0         -34.1         -6.4         -6.4         60.4         60.5         60.3           35.6         -53.1         -6.4         -6.4         -6.4         60.3         60.3         60.3         60.3           35.4         -37.6         -50.4         -6.4         -6.4         -6.4         60.3	_	394.8	-59.9	-46.5	٠,	565.3		257.4	59.0	1.000127
378.2         -33.8         -48.4         7.0         548.1         60.6         60.6           370.0         -35.0         -48.4         7.0         60.6         60.6         60.6           36.0         -35.0         -56.0         -7.0         52.3         593.4         60.6         60.6           36.0         -56.0         -7.0         50.6         7.0         60.7         60.3         60.6           34.0         -59.4         -69.3         -7.0         50.6         60.3         60.3         60.3           340.0         -69.3         -7.0         60.9         60.3         60	_	360.4	-31.4	4		556.7		257.1	<b>†•09</b>	1.000125
356.0 34.2 -50.4 4.0. 530.4 6n0.5 254.9 60.6 3 356.0 35.6 -53.1 4.0 520.3 504.5 253.4 60.3 3 356.0 3.0 36.4 -53.1 4.0 520.3 504.5 253.4 60.3 3 356.0 3.0 36.4 -53.5 504.5 253.4 60.3 3 356.0 3.0 36.4 -63.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	_	370.2	-32.8	148.4	0.,	544.1		256.1	9.09	1.000123
35.6.0         -55.1         -55.1         -55.4         60.3         15.5         -55.4         60.3         15.5         -55.4         60.3         15.5         60.3         15.5         15.5         60.3         15.5         15.5         60.3         15.5	_	370.0	-34.2	1.05-	• · · · · · · · · · · · · · · · · · · ·	539.4		6-852	9.09	1.000121
359.1       -36.0       -35.0       -50.0 <td< td=""><td>_</td><td>362.0</td><td>-35.6</td><td>1-53-</td><td>•</td><td>530.8</td><td></td><td>253.4</td><td>60.3</td><td>1.000119</td></td<>	_	362.0	-35.6	1-53-	•	530.8		253.4	60.3	1.000119
340.3 - 38.4 - 59.4	_	354.1	-37.0	-56.0	•	522.3		252.9	60.3	1.000117
334.8 -39.8 -60.5 5 1 20.5 6 61.1 334.8 -39.8 -39.8 -60.5 334.8 -39.8 -60.5 334.8 -39.8 -60.5 334.8 -40.5 -60.8 34.8 -40.5 -60.8 34.8 -40.7 -60.8 -40.7 -60.8 -40.8 -60.	_	340.0	138.4	-59.4	•	514.0		253.2	60.7	1.000115
254.2 -44.2 -69.3 499.8 593.3 253.1 51.5 31.0 51.5 31.0 51.5 32.0 51.4 41.2 -69.3 499.8 593.3 253.3 51.7 30.0 -44.0 45.6 56.8 6 250.4 61.1 15.0 50.0 -44.0 44.0 46.0 44.0 46.0 247.0 61.1 15.0 49.2 4	_	338.8	-39•8	-63.5	•	505.8		253.6	1.19	1.000113
25.2. 42.0 -88.8 48.1 501.5 252.3 51.7 13.5 15.9 44.7 47.5 588.8 250.4 61.1 14.0 5.0 -88.8 48.1 5.0 54.5 588.8 250.4 61.1 14.0 5.0 -88.8 48.2 588.8 250.4 61.1 14.0 5.0 -8.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	_	331.4	-41.5	-69-3	•	8.764 		254•1	61.5	1.000111
210.9       -43.7       461.0       590.1       505.1       51.4         200.0       -45.8       464.0       587.5       584.7       61.4       1         200.0       -46.9       464.0       587.5       548.7       61.7       1         200.0       -46.9       464.0       447.4       584.7       61.7       1         200.0       -46.9       449.2       447.4       584.9       247.1       61.7       1         200.0       -50.4       450.4       423.8       581.5       247.1       60.9       1         200.1       -51.5       480.0       247.6       68.6       1<	e (	324.2	142.0	-88•8	•	6.684		255.3	61.7	1.000109
202-0       -444-7       61-1       1         202-0       -46-8       207-9       244-7       61-1         202-0       -46-9       247-0       61-1       1         202-0       -46-9       247-0       61-7       1         202-0       -46-9       247-0       61-7       1         202-0       -46-0       431-6       247-0       61-7       1         202-0       -46-0       431-6       247-0       61-7       1         202-0       -51-6       431-6       247-0       61-7       1         202-0       -51-7       41-2       578-0       247-0       61-7       1         202-0       -51-7       41-2       578-0       248-0       72-7       1         202-1       -52-7       41-2       578-0       248-0       72-0       1         202-1       -55-7       41-2       578-0       246-0       1       1       1         202-1       -55-7       41-2       41-2       57-3       1       246-0       1       1       1       1       1       1       1       1       1       1       1       1       1       1	_	01000	143.			191		252.1	61.8	1.00010/
202-0		203.6	/ • th th -			472.5		250.4	4.19	1.000105
29.1	_	305.00	147.8			0. 10.		7.842	61.1	1.000103
26.55 -49.0 270.0 -50.4 270.0 -50.4 260.4 -52.7 260.4 -52.7 260.4 -52.7 260.4 -52.7 260.4 -52.7 260.4 -52.0 260.4 -52.0 260.4 -52.0 260.4 -52.0 260.4 -52.0 260.6 -51.0 270.4 -56.0 270.4 -56.0 270.5 -56.0 270.6 -50.0 270.7 -60.0 270.7		2000	0 0 0			3.05.0 2.05.0 3.05.0		7 - 7 - 7	60.09	1.000101
270.0       -50.4         260.4       -51.5         260.4       -51.5         260.4       -52.7         260.4       -52.7         260.4       -52.7         251.4       -53.9         251.4       -53.9         251.4       -53.9         251.4       -53.9         251.4       -53.9         251.4       -53.9         251.4       -53.9         26.5       -60.1         27.5       -60.2         23.7       -56.8         23.7       -56.8         23.7       -56.8         23.7       -56.8         23.7       -56.8         23.7       -56.8         23.7       -56.8         23.7       -56.8         24.7       -56.8         25.7       -56.8         26.8       -57.8         27.4       -57.2         27.4       -57.2         27.4       -57.2         27.4       -57.2         27.5       -57.2         27.6       -57.2         27.7       -57.2         27.7       -5		284.5	7.04			£30°E		247.1	644.0	1.00000
269-6 -51-5 260-4 -52-7 250-4 -52-7 250-4 -52-7 250-4 -52-7 251-4 -52-7 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-4 -55-0 251-5 -51-5 251-5	_	270.0	-50.4			431.5		247.6	68.6	1.000096
251.4 -55.0 251.4 -55.0 251.4 -55.0 251.4 -55.0 251.4 -55.0 251.4 -55.0 251.4 -55.0 251.4 -55.0 251.4 -55.0 251.2 -56.2 251.2 -56.2 251.3 -56.2 251.4 -55.1 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.2 251.7 -56.3	_	203.6	-51.5			423.8		248.5	72.7	1.000094
251.4 -55.0 245.5 -53.9 245.5 -55.0 245.5 -55.0 245.5 -55.0 245.5 -55.0 245.5 -56.2 25.4 -55.0 245.5 -56.2 25.0 -56.8 25.0 -60.8 25.0 -56.8 25.0 -60.8 25.0 -56.8 25.0 -56.8 25.0 -60.8 25.0 -56.8 25.0 -60.8 25.	_	260.4	-52.7			410.2	-	248.5	72.0	1.000093
251.4 -55.0 245.5 -55.7 245.5 -55.7 245.5 -55.7 25.7 -56.8 25.8 -56.8 26.8 -56.8 26.8 -5	_	251.3	-53.9			#04.B		248.0	70.0	1.000001
239-7 -55-7	_	251.4	-55.0			010 v		247.3	65.0	1.000089
239.7 -56.2 234.0 -56.8 234.0 -56.8 225.5 -56.8	_	245.5	-55.1			393.3	-	246.5	60∙8	1.000088
254.0 -56.8 55.3 1 247.3 65.3 1 220.5 220.5 220.5 220.5 220.2 220.	_	239.7	-56.2			3.4.9		240.8	61.3	1.000086
223.0 -58.2 223.0 -58.2 223.0 -58.2 224.0 -58.2 225.0 -58.2	<u> </u>	234.0	8.95.			æ		247.3	63.3	1 • 000084
25.0	_	6.022	5/40			E • • • • • • • • • • • • • • • • • • •	_	2.842	0.47	1.000082
212.5 59.9 212.5 59.6 212.5 59.6 212.5 59.6 207.4 559.4 251.5 103.9 1 207.4 251.5 103.9 1 207.4 251.5 103.9 1 207.4 251.5 103.9 1 207.5 59.7 250.1 94.4 1 207.5 59.7 250.1 94.4 1 207.5 59.7 571.4 256.9 45.3 1 207.5 572.5 247.5 40.4 1 207.5 56.4 256.4 256.4 256.4 175.2 56.4 175.2 56.4 1 55.8 27.5 573.9 245.7 62.1 1 207.5 55.8		223.0	158.2			7.		250.2	6.48	1.000080
212.5 -59.6 (19.7) (19.	_	7117	200			•		1.102	96.2	1.0000/9
20/04 -59.9 20/04 -59.9 20/05 -60.0 20/05 -60.0 20/05 -60.0 20/05 -60.0 20/05 -60.0 20/05 -60.0 20/05 -50.0 20/05	_	212.5	-59.6			40.00		251.5	103.9	1.000077
202-5 -60-0  197-6 -59-7  197-6 -59-7  196-9 -58-8  192-9 -58-9  180-8 -57-2  180-8 -57-2  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-5 -56-1  170-6 -50-1  170-7	_	201.4	-59.9				564.9	251.5	102.1	1.000075
197.6 -59.7 76.8 1 192.9 -58.8 50.2 1 186.3 -58.0 57.2 571.4 256.0 45.3 1 185.8 -57.2 772.5 254.5 40.4 1 179.5 -56.4 773.6 240.0 48.4 1 175.2 -56.1 275.1 74.3 250.4 82.9 1	_	204.5	-60.0			<i>y.</i>		550.1	5.16	1.000074
192.9 -58.8 50.2 1 186.5 -58.0 45.3 1 180.8 -57.2 50.0 772.5 234.5 40.4 1 179.5 -56.4 26.1 275.5 -56.1 55.8 1 173.2 -56.1 25.8 27.0 73.9 245.7 62.1 1 173.1 -55.8 52.9 52.0 82.9 1	_	197.6	-59.7					247.2	76.A	1.000072
185.5 -56.0 45.3 1 185.8 -57.2 256.0 45.3 1 185.8 -57.2 40.4 1 179.5 -56.4 240.0 48.4 1 175.2 -56.1 25.0 27 75.9 245.7 62.1 1 175.1 -55.8 27 74.3 250.4 82.9 1	_	192.9	-58.8			· · · · · · · · · · · · · · · · · · ·		243.1	60.2	1.000070
183.8 -57.2 40.4 1 179.5 -56.4 240.0 48.4 1 175.2 -56.1 245.1 175.2 -56.1 1 175.2 -56.1 275.9 245.7 62.1 1 175.1 -55.8 274.1 74.3 250.4 82.9 1	_	188.3	-58.0					236.0	45.3	1.000068
179-5 -56-4 48-4 1 175-2 -56-1 24 173.9 245-7 62-1 1 171-1 -55-8 27 14.3 250-4 82-9 1	0	182.8	-57.2			٠٠ ٠٠ ٢٠	572.5	234.3	<b>†•0</b> †	1.000066
175.2 -56.1 275.2 245.7 62.1 1 1 171.1 -55.8 27.0 274.3 250.4 82.9 1	0	179.5	-56.4			•		0.047	48.4	1.000064
171-1 -55-8 25-9 1	_	175.2	-56.1			2B1.	-	242+7	62.1	1.000063
	0	171.1	-55.8			274.	14.3	4.057	82.0	1.000061

\*\* AT LEAST ONE ASSUMED RELATIVE HULIDITY VALUE AND BED IN THE INTERPOLATION.

GEODETIC COORDINATES 32.4U043 LAT DEG 106.37033 LON DEG	DATA INDEX	PFFD	KNOTS REF	99.6 1.000058		-	· <b>-</b>	7	1	-	-	-	-	1.000046	-		_	-	_	-	_	94 . 4 1 000038	-		<b>:</b>		-			* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	<b></b>	page proc. of 177 17 18 11 18 18 18		<u></u>	<u> </u>	<u> </u>	gar and a 1997 of the telephone of telephone of the telephone of telephone	gar and a 1971 of the control of the	
	P. Pay DAIR	î î		,	. * 6, 7	255.	255.	2555.	2555	7-552	522+4	52 <b>6</b> •0	255·H	255.5	254.1	251.7	250 · 8	250.6	252.0	252.6	252.2	251.4	745.7	243.1	243.4	* ***	243.6	243.6 242.4	242.4 242.4 241.4	243.6 242.4 241.5 241.6 239.6 239.8	243.6 242.4 241.2 239.9 239.2 239.2	242.4 242.4 242.4 259.9 259.2 269.3	24.00 24	######################################	14 1 1 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.4 t L t t t t t t t t t t t t t t t t t	2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 4 2 4 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 5 6 7 5 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6
4 DATA 0214 ANDS CONT'	SPFFD OF		KNOIS	575.0	_	-		573.9		574.1									-			569.2			-		266.3														
UPPER AIN DATA 0900020214 WHITE SANDS TABLE 7 CONT'	DENSITY	GM/CUBIC	METER	260.9	255.1	244.5	243.9	234.1	232.0	226.8	222.0	217.1	212.2	207.4	202.9	198.8	194.7	190.7	185.8	181.0	176.8	172.8	165.2	161.3	157.3	5,74		)		146.4 146.4 146.4 136.4	14000 14000 14000 14000 14000 14000 14000 14000	1466.4 1466.4 1466.4 136.5 136.2	11 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1140 1140 1140 1140 1140 1140 1140 1140	1140 1140 1140 1140 1140 1140 1140 1140	14644 14644 13664 13664 12668 12668 12668	1146 1146 1146 1146 1146 1146 1146 1146	120,000 11 120,000 11 120,000 11 120,000 11 11 11 11 11 11 11 11 11 11 11 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	114000 113000 113000 113000 111400 111500 111500 111500 111500 111500 111500 111500 111500 111500 111500 111500	112.55
٠	REL . HUM.	PERCENT																																							
ET MSL NST	TEMPERATURE	DE WPO INT	CENTIGRADE																																						
989.00 FEET MSL 0918 HRS NST	TEM	AIR	DECHEES	-55.3	-55.6	-55.9	-56.2	-56.5	-55.7	-56.0	-56.5	-56.8	-57.1	-57.3	-57.8	-58.5	-59•3	-60.0	-59.6	-59.2	-59•3	-59.7	3.00	<b>4.09-</b>	-60.3	+•09-		-60•3	-60 -60 -50 -50 -50 -50	160.5 160.5 160.6	160.5 160.5 160.7	160.5 160.6 160.7 160.8	160.5 160.6 160.8 160.9	160.5 160.6 160.7 160.9 161.0	160.5 160.6 160.4 160.9 161.0 161.1	160.05 160.05 160.05 160.09 161.0 161.1	760.55 -60.65 -60.7 -60.9 -61.0 -61.1 -61.1	760.55 -60.65 -60.7 -60.7 -60.9 -61.1 -61.1 -61.1 -61.1	1600 1600 1600 1600 1610 1610 1610 1610	1600 1600 1600 1600 1610 1610 1610 1610	16005 16005 16005 16102 16103 16103 16105 16105 16105 16105
£ #4	PRESSURE		MILLIDARS	165.1	159.3	155.5	151.9	146.3	144.8	141.4	138.1	134.8	131.6	126.5	120.4	122.5	119.5	110.7	113.9	111.2	104.5	105.9	100.9	98.5	90.1	93.8		91.50	91.9 84.3 84.3	84.5 84.5 87.2 80.1	94.5 84.3 85.1 85.1	91.0 84.3 87.2 85.1 81.0	94.5 84.3 85.1 85.0 74.1	94.5 84.3 85.1 85.0 79.1	94.5 94.3 84.2 85.1 85.0 74.1 77.2	944.5 864.3 86.1 86.1 77.2 77.2 70.3	94.5 84.3 85.1 85.1 74.1 77.2 71.7	944.5 84.1 84.1 85.1 74.1 77.2 71.7	9444 9444 9444 9444 9444 9444 9444 944	944,9 864,9 864,9 774,1 774,1 771,2 666,9	944.9 944.9 964.1 774.1 775.3 775.3 766.0
STATION ALIITUDE 31 MAR. Bl ASCENSION NO. 2	GEUME TR1C	AL11TUDE	MSL FEET	43500.0	0.00044	44500.0	45000.0	45500.0	46000.0	46500.0	47000.0	47506.0	48000.0	48200.0	0.00064	49500.0	0.00000	20200.0	0.00010	51500.0	52000.0	52500•0	53500•0	54000.0	24500.0	55000.0	• • • • • • • • • • • • • • • • • • • •	0.00000	55500•0 56000•0 56500•0	55500.0 56000.0 56500.0 57000.0	55500.0 56000.0 56500.0 57000.0	55500.0 56000.0 56500.0 57000.0 57500.0	55500.0 56000.0 56500.0 57500.0 58000.0 58500.0	55500.0 56500.0 57000.0 57500.0 58500.0 58500.0	55500.0 56500.0 57500.0 57500.0 58500.0 59500.0	55500.0 56000.0 57500.0 57500.0 58000.0 59500.0	55500.0 56000.0 57500.0 57500.0 59500.0 59500.0	55500.0 56000.0 57500.0 57500.0 59000.0 59500.0 60000.0	55500.0 56000.0 57000.0 57500.0 58000.0 59000.0 60000.0 61000.0	55500.0 56000.0 57000.0 57000.0 58000.0 59000.0 60000.0 61500.0	55500.0 56000.0 57500.0 57500.0 59500.0 59500.0 61000.0 61500.0 62500.0

STATION ALIITUDE 31 MAR. 81 ASCENSION 140. &	_	3989.00 FEET MSL 0918 HRS MST	_	UPPER AIM DATA 0900020214 WHITE SANDS TABLE 7 CONT'	Jala 14 JS ont'		ле UDE Т1 32• 106•	GEUDETIC COOKDINATES 32-40043 LAT DEG 106-37033 LON DEG
GEUME TRIC ALTITUDE MSL FFF F	PRESSURE #11 L 184RS	TEMPERATURE AIR DEWPOINT DECREES (ENTIGRADE	REL.HUM. PERCENT	DENSITY S GM/CUBIC MFTFR	SPEFU OF SOLIND	WIND DATA DIRECTION S	SPEED NOTS	INUEX OF
43500.0	4			# 10 t	2 473	23.7.0	201	100000 A
		* . 00		C•101	0.000		76.4	1.000023
0.00000	S-09	-59•1		9H.4	569.9	233.9	29.1	1.000022
0.00549	0.65	-59.2		96.1	569.8	230.1	26.2	1.000021
0.2000.0	9./5	5.90		93.9	569.7	225.5	23.6	1.000021
0.00559	200	\$ - F.C.		91.7	569.6	220 1	21.7	1.000020
11.00000	640	T • AG	•	#*fig	570.0	213.0	19.0	1.000020
66500.0	55.0	-58•/		- CBO	570.5	212.3	16.1	1.000019
0.00070	C • 7 C	150.0		8.40	571.1	208.4	12.2	1.000019
0.200.0	7-15	P. 151		82.7	571.6	213.7	U•6	1.000018
0.00000	ケースラ	#5/•5		80.6		250.9	6.5 3.5	1.000018
0.0000	47.5	3.1C		7.20		0.02	•	
0.0000	200	_30•7 =56•7		77		27026	± 6	1.00001
700000	6.03	1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		73.4	2.070	37000	16.4	710000
70500.0	M • + +	-53.5		70.1	577.9	270.6	19.1	1.000016
71,000.0	E+5+	-52.4		6H•3	578.8	200°B	21.2	1.000015
71500.0	44.2	-52.8		9.99	578.2	209.1	23.2	1.000015
72000.0	6.14	<b>-53.3</b>		65.4	577.7	207.4	24.4	1.000015
7.5500.0	C•0#	-52.8		6.3.7	578.3	265.1	25.5	1.000014
73000.0	するから	-52.3		62.1	579.0	263.4	24.5	1.000014
7,500.0	30.0	3210		9.09		262.1	20.7	1.000013
0.000.0	2/.0	51.5		0.00		260 . 3	6.91	1.000013
75000.0	30.0	-50.5		56.1	541.0	7.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7.8	1.000013
75500.0	30.1	-50.7		54.9		5.042	K.5	1.000012
76000.0	54.3			53.7		153.9	1.7	1.000012
76500.0	33.5	-51-1		52.5		102.6	5.0	1.000012
77000.0	34.7	-51.3		51.3		91.3	9.5	1.00001
0.00077	31.9	-51.5		50.5		٦٠.٢٥	13.4	1.000011
0.0008/	31.2	-51.7		1.64	579.7	4.88	12.7	1.000011
70000	0°00	-51.2		47.9	540.4	*• 06	11.6	1.000011
0.00067	23.0	-20.6		45.5	581.2	4.06	Q.	1.000010
79500.0	29.1	-20.0		45.5	582.0	108.5	6.5	1.000010
0.0000	20.5	±•61-		P. ##	5A2.H	137.5	3·5	1.000010
80500.0	27.8	30 · 93 · 1		43.2	543.5	154.5	- -	1.000010
0.00019	21.5	7.97		45.1	544.3	171.7	-: -:	1.000009
81500.0	20.6	9-11-		41.0	5A5.1	186.1	٠. د.	1.000009
92000.0	2000	D•/ h=		0.0	5A5.9	1981		1.000009
0.00000	K-100	2000		90.	SAB. 3	201.0	0 10	600000.
2.22.70	21.5			7000	386.b	9.017	۲•٥	9000000

DETIC COOKDINATES 32-40043 LAT DEG 106-37033 LON DEG	INDEX OF REFRACTION	,	1.000008	1.000008	1.000008	1.000008	1000001	1.000007	1.000007	1.000007	1.000007	1.000006	1.000006	1.000006	1.000006	1.000066	3000001	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	100000	1.000004	1.00004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000003	1.000003
.E00E11C 32.4( 106.37	TA SPEED KNOTS		8.9	10.5	12.1	13.8	17.1	18.5	19.3	20.0	19.R	19.0	18.2	2.71	10.0	15.66	15.7	14.2	11.4	8.5	2.7	5.0	12.3	17.9	23.1	60.00	22.A	19.4	8•6	3.8	13.6	20.9	28.3	2000	31.9	30.7			
	WIND DATA DIRECTION SI		223.3	228•4	232.9	236.3	241.1	242.5	243.1	243.6	243.6	24342	242.1	242.5	7 • T • C • C • C • C • C • C • C • C • C	240.0	24.3.5	244.0	243.4	242.5	225.7	83•B	76.0	73.5	72.0	4.07	6.60	69.3	78.7	201.3	250•0	228.4	228.3	0.122	222 · x	218.4			
JATA Lu JS Ont'	SPEED OF SOUND		547.0	5A7.3	548.0	5A8.8	500.3				593.2	593.6	204.1	504.5	505.5	40.4	5000	500.8	597.3	597.8	598.2	598.7	508.7	598.8	596.H		598.9	598.9	0.6pg	899.0	549.1	599.1	549.1	549.2	549.2	599.3	549.3	599.3	299.4
UPPER AIR DAT 0900020214 WHITE SANDS TABLE 7 CONT	DENSITY GM/CUBIC METER	. 1 	37.2	36.3	35.4	34.5	200	32.0	31.3	30.5	29.8	29.1	# W Z	27.7	26.4	25.4	25.2	24.6	24.1	23.5	23.0	22.4	21.9	21.5	21.0	200	19.7	19.2	14.8	18.4	14.0	17.6	17.2	16.9	16.5	16.1	15.8	15.4	15.1
_	REL.HUM. PERCENT																																						
89•n0 FEET MSL 0918 HRS MST	TEMPERATURE R DEWPOINT EES CENTIGRADE										_		_																_										
89.nO FEET M 0918 HRS MSI	TEM AIR DEGREES		-46.1	-t2.8	E - C - C - C - C - C - C - C - C - C -	) • <del>1</del> 1 1 1	-43.6	-43.0	-42.4	-41.8	-41.3	0.14	0.03	740.0	-19.5	-39.5	-38.8	-38.4	-38.1	-37.7	-37.4	-37.0	-37.0	-30.9	136.9	4. 4	-36.8	-36.8	-36.7	-36.7	-36.	-36.7	30.0	30.0	36.6	-36.5	-36.5	36.3	-36.4
11TUDE 396	PRESSURE MILL IUARS		24.2	23.7	23.2	22.7	21.7	21.2	20.7	20.5	19.8	7.7	<b>6.</b> 0 7	10.3	17.7	17.3	1/.0	10.6	10.2	15.9	15.5	10.2	6.41	C++1	75	13.6	10.3	15.0	14.8	12.5	14.2	14.0	/•TT	•	7.11	0.11	•	•	10.3
STATION ALITTUDE 39 31 MAR. B1 ASCENSION NO. 214	GEUMETRIC ALTITUDE MSL FEET		83500.0	84000•0	0.005	85000.0	86000.0	86500.0	97000.0	0.00579	88000.0	88500.0	0.00060	0.00000	90500.0	91000.0	91500.0	92000.0	92500.0	93000.0	93500.0	94000.0	94500.0	95000.0	95500.0	0.0000	97000-0	97500.0	98000.0	98200.0	0.00066	99500.0	0.000001	0.005001	101000.0	101500.0	102000.0	102201.0	103000.0

"EODETIC COOKDINATES 32-44043 LAT DEG 106-37033 LON DEG	INUEX OF HEFRACTION 1.000003 1.000003
£00£11 32.	WIND DATA DIRECTION SPEED DEGREES(TIJ) KNOTS
+ + • •	U I KE E GKE
UPPER AIN DATA 0900020214 WHITE SANDS TABLE 7 CONT	PERCENT GM/CUBIC SOIND     PERCENT GM/CUBIC SOIND
	REL.HIM. PERCENT
FEET MSL 15 MST	AFCRATURE DEMPOINT S CENTIGRAD
3989.00 FEE1 MSL 0918 HRS MST 14	AIR AIR S DEGMEES -36.4 -36.3
.TITUUE 3 1 110. 214	PRESSURE MILLIDARS 10.0 9.8 9.6
STATION ALITTUDE 3 31 MAR. 81 ASCENSION NO. 214	6EUMETRIC PRESSURE ALTITUE MSL FEET MILLIDARS 103500.0 10.0 104500.0 9.6

	GEODETIC COOKIDINATES	32.40043 LAT DEG	106.37033 LON DEG
A.ANDATORY LEVELS	0.900020214	WHITE SANUS	TABLE 8
	STATION ALIITUDE 3989.00 FEET MSL	31 MAR. 81 091A IRS MST	ASCENSION 140. Z14

Λ	DE GREFS 11.9 11.9 8.3 4.3 -2.9 -7.4	CENIIGRADE -5.1 -6.5 -10.8 -20.4 -24.6 -32.6	36. 26. 17. 17.	DEGREES (TN) 3.56.0 295.9 280.2 275.3 275.3 260.8 260.3	KNO1 X KN
11. 0 11. 0 11	11. 81.00 12.77 12.00 13.00 10	15.1 10.8 120.8 120.8 132.6	30. 32. 20. 17. 16.	235.0 280.2 275.3 275.3 200.8 200.8	11.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84 1 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.8 120.4 128.6	33. 20. 17. 17.	295.9 280.2 275.3 273.2 265.8 262.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12.2	120.8 128.4 132.6	32. 20. 17. 17.	280.2 275.3 273.2 266.8 262.5 260.3	22.9 32.9 34.9 39.4 46.6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12.5	124.6 128.6 132.6	20. 17. 17. 16.	275.3 273.2 266.8 262.5	32.9 34.9 39.4 39.4
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-12.2	-24.6 -28.4 -32.6	17. 17. 10.	273.2 266.8 262.5 260.3	34.9 37.4 39.4 40.5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-12.2	-28.4	17.	266.8 262.5 260.3	37.4
11222 1722 1722 1732 173	-12.2	-32.6	16.	262.5	4.04
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	. 727	16.	260.3	46.5
	-17.5	N つ !		7.7.7	
	-22.9	-40.t	-œ-	1.162	させ・ひ
1 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-29.0	-45.7	18.	257.3	57.5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-37.7	-57.7	10.**	253.1	60.5
1	-46.2			248.3	61.0
6001 6000 6000 6000 6000 6000 6000 6000	-55.3			247.1	0.49
556.1 660.5 610.0 610.0 610.0 610.0 610.0 610.0 610.0	-60.1			548.9	80.2
66666 66666 66666 66666 66666 66666 6666	-56.1			245.7	62.3
661 661 661 661 661 661 661 661 661 661	-56.4			255.2	62.6
-600 -601 -601 -600 -600 -600 -600 -600	-57.9			253.9	56.1
-61.0 -631.4 -57.5 -57.5 -50.8 -46.5	-60.5			242.2	34.9
161.4 152.2 152.6 160.8	-61.0			240.8	9.44
- 59.2 - 52.6 - 50.8 - 46.5	-61.4			240.8	48.7
	-59.5			233.0	28.3
152.6 150.8 146.5	-57.5			227.1	9•9
-50.8 -46.5 -41.5	-52.6			264.6	25.4
-46.5	-50.8			92.4	10.7
-41.5	-46.5			212.9	2.9
	-41.5			243.8	20.5
-37.0	-37.0			78.2	H•7
-36+4	-36.4				

\*\* AT LEAST ONE ASSUMED RELATIVE HU. IDITY VALUE WAS USED IN THE INTERPOLATION.

STEAT ICANT EFVEL DATA	09001,001,	1,6-37	TABLE 9
	STATION ALITUDE 4051-37 FLET MSL	31 MAR. 81 0755 HRS MST	ASCENSION NO. 16

GEUDETIC COORDINATES 32-40175 LAT DEG 106-31232 LON DEG

KEL . HUM.	PERCENT	34.0	32.0	52.0	•	36.0	0.64	36.0	59.0	27.0	21.0	70.0	19.0	19.0	5		ġ	•																							
I WPERATUME	DEWPUINT CENTIGKANF	-1.9	-4.3	-5.1	-5.5	7.9-	-7.6	-11.6	-10.1	-18.8	-21.9	4.72-	-35.7	٥	6.14-	-43.0	9.44-	L. 44-																							
it MPt	AIR DEGKEES	13.6	11.8	10.9	-	7.4	2.0	1.9	₽••	-2.4	-2.1	<b>48.6</b>	•	•	•	-30.5	•	-38.8	-41.3	•	•	•	•	•	-59.2		-59.0	-57.3	-55.1		•	•	3:	•	•	-63.3	9.09-	-61.6	-58+3	9	-61.6
E GEUMETHIC	ALTITUDE S MSL FEET	4051.4	4274.5	0	ດໍ	01.	8942.5	291.	ũ	104	11761.9	15100.0	8808.	19850.5	23147.0	24170.2	54844.9	27428.8	28313.3	30676.2	33306.1	34586.2	36634.6	38104.1	39206.7	40159.4	40664.2	41228.4	42835.6	43393.3	45213.9	46392.5	50867.2	200	5 / c	8	•	60862.6	4110.	837.	67423.6
PRESSURE	MILLIBARS	880.3	673.2	•	•	•	•	•	•	678.4	0.099	579.8	200.0	479.2	417.8	400.0	388.6	347.2	333.8	300.0	265.6	250.0	226.6	211.0	200.0	191.0	•		168.0	•	150.0	-	114.2	0 (	•		÷	ċ	è		20.9

, , ,	FEE. MSL	0755 HRS MST	
	SIALLOW ALLITOUR 4051.37 FEET MSL		φ
1	AC 1 1 00 P	19	ASCENSION NO. 1
	SOT WIS	31 MAR. BI	ASCENS1

UATA	_
SIGNIFICANT LEVEL 090012010	LC-37 TABLE 9 cont

6-EODETIC COOKDINATES 32-40175 LAT UEG 106-31232 LON DEG

REL.HUM. PERCENT TEMPERATURE AIR DEWPOINT DFGREES CENTIGHAIF PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

67790.1 70851.9 72218.6 73859.1 76655.4 83336.6 86048.7 87541.3 97541.3 93425.9 96284.1 98409.6 103341.1

50.00 100.00

1550.1 1553.4 1553.4 1550.6 1550.6 1550.6 1560.4 1560.4 1560.4 1560.4 1560.4 1560.4 1560.4

18

	#	051.37 FEET MSL	I MSL	_	UPPER AIR DAT 0900180018	DATA In		0.EODET1C	C COUMDINATES
31 MAR. B1 ASCENSION NO	. 16	0755 IIRS MST	MS1		<b>LC-37</b> TABLE 10			32. 106.	32.40175 LAT DEG 106.31232 LON DEG
GEUMETRIC	PRESSURE	TEM	TEMPERATURE	REL. HIM.	DENSITY	SPFFU OF	.IN. DATA	Y.	INUEX
AL 11TUDE		AIA	UE WPO INT	PERCENT	GM/CUBIC	SOLINE	DIRECTION	SPEEU	0F
MSL FEET	MILLIDARS	DEGREES	CENTIGRADE		METER	KINOTS	DEGREES (IN)	KNOTS	<b>REFRACTION</b>
4051.4	860.3	13.6	-1.9	34.0	1067.0	6.044	350•0	0.9	1.000262
4500.0	866.0	1.1.2	6.4-	32.0	1054.1	657.5	345.3	7.2	1.000256
5000.0	850.4	11.0	-5.4	31.0	1040.7	657.3	341.6	8.6	1.000251
5500.0	834.9	10.1	-5.7	32.3	1025-1	h46.2	338.9	10.1	1.000247
0.0009	819.7	1.6	0.9-	33.6	1004.8	655.1	320.5	10.9	1.000243
6500.0	804.8	8.5	<b>5.9</b> -	34.9	994.8	6.454	297.5	13.1	1.000240
7000.0	790-1	7.1	-6.7	36.6	980.2	6-259	289.B	16.8	1.000236
7500.0	775.5		-6.8	39.8	960.6		286.2	20.5	1.000233
0.0008	77	0 f	0.7.	0.00	953.3		200.1	23.A	1.000230
8200.0	747.0	2.0	0.0	7.04	1.040	548.2	270-0	200	1 - 000227
96000	7.4.7	7-1	7.0 7.0	36.0	911.8		278.1	00 K	
0.00001	700.0	2	-15.0	30.7	89A.7		277.1	3000	1.000210
10500.0	692.7	-1.0	-17.0	28.3	885.9	643.0	277.2	29.1	1.000206
11000.0	9.619	-2.3	-18.7	27.1	873.3		275.6	29.1	1.000202
11500.0	660.7	-2.6	-20.7	23.2	857.8		273.2	29.6	1.000197
12000.0	653.9	-3.1	-22.3	20.9	843.1	_	270.7	31.9	1.000193
12500.0	641.4	0.4-	-23.2	20.8	824.7		269•3	34 • 3	1.000190
13000.0	629.0	0.4-	-24.0	20.6	816.4	6.36.2	269•0	36.7	1.000186
13500.0	610.9	-5.8	8.47-	20.5	803.4	_	208.2	37.5	1.000183
14000.0	605.1	1.9-	-25.6	20.3	790.6		267.4	37.7	1.000180
14500.0	595.5	2.7-5	-26.5	20°5	778.0		266.4	3.85 k	1.000177
15000.0	570.6	9 0	-27.5	0.00	75.0	_	202.0	38.0	1.000174
15000-0	200	9.61 9.01	1,00°=	10.8	740.5	611.1	26.30	18.0	1.000171
16500.0	540.3	-12.1	-30.6	19.6			260.7	38.7	1.000166
17000.0	537.4	-13.3	-31.7	19.5	720.3		259.5	39.7	1.000163
17500.0	520.8	9.41-	-32.8	19.4	704.5		258⋅8	41.1	1.000160
18000.0	510.4	-15.8	-33.9	19.2	696.8	625.0	258.7	45.6	1.000158
18500.0	500.5	-17.0	-35.0	19.1	9889 ·	423.5	258.7	44.5	1.000155
19000.0	490.1	-16.1	-35.9	6	677.4	h22.3	258.3	•	1.000152
19500.0	1000	-18.7	-36.5	0.61	665.4	621.5	25/11		1.000150
0.00002	7.07	17.0	10/6.	29.0	2 · hcq	500°	257.0	X • O	/*T000 ·
202000	000	-21.0	£	700	Z• h+0		8.167	•	C#1000-1
0.00012	0.00	-22.3	0.00	7.77	0.400	2	0.007	000	5270001
0.00512	* C	-23.1	5.65-	0.00	9-179	0 .	7.667	•	0210001
22000.0	430.2	-25.0	1.04-	22.9	615.1	5.	7.602	n .	1.000138
22500.0	Z • 62 ÷	S	5.0±-	23.6	605.7	612	•	•	1.000136
23000.0	2	-27.7	-41.7	•	÷ 1	510°	٠,	51.5	. 100u
23500.0	411.6	-28.9	-42.3	26.0	587.0	6118.9	255.0	52.8	1.000132

GEODETIC COORDINATES 32-40175 LAT DEG 106-31232 LON DEG	INDEX	OF REFRACTION	1.000129	1.000127	1.000125	1.000123	1.000121	1.000119	1.000117	1.000115	1.000113	1.000111	1.000109	1.000107	1.000105	1.000103	1.000101	1.000100	860000 1	1.000090	1.000093	1.00001	1.000089	1.000088	1.000086	1.000084	1.000083	1.000081	1.000079	1.00001	1.000075	1.000073	1.00001	1.000070	1.000068	1.000066	1.000064	1.000063	1.00001	1.000059	1.000058
6E 0DE T 10	4	SPEED	54.0	54.9	55.A	56.8	9.76	58.1	58.1	29.4	<b>†•09</b>	61.5	62.6	63.5	6.50	63.0	4.50	63.2	63.5	7.0	94.99	689	71.3	73.6	74.7	74.4	73.8	72.9	72.3	72.5	73.2	74.7	76.2	7.77	78.A	78.7	78.5	78.0	77.4	78.9	80.5
	WIND DATA	DIRECTION, DEGREES(TN)	253.1	251∙6	250.9	250•3	249.7	249.5	248.4	547.6	246.5	245.4	244.5	0.442	/ • h h Z	242.5	240.0	24/•5	7.47.7	7.140	247.5	247.5	247.6	247.6	247.4	546.9	246.3	245.5	9 · 5 · 5	2.652	243.B	243.7	243.8	544.4	6.442	245.3	245.6	245.1	245∙8	246.6	547.4
DaTa 116 cont'	SPFFU OF	SOUND KNOTS	4.7.4	6n6.2	605.0	603.2	601.5	549.7	507.9	206.1	594.3	592.7	591.5	590.2	549.0	547.7	5A6.2	5A4.6	5A2.9	241.6	578.0	576.7	575.4	574.1	572.9	571.7	570.4	569.7	569.1	568.5	568.9	549.6	570.2	570.8	570.4	571.4	572.9	573.A	574.7	575.0	5.4.6
UPPER AIN DAT 0900180016 LC-37 TABLE 10 CON	DENSITY	GM/CUBIC METER	577.4	567.4	557.6	544.8	540.1	531.5	523.2	514.9	506.6	498.1	489.0	480.5	#• I / #	462.9	454.7	446.8	するなが	0.101	416.4	408.6	4000	393.1	385.5	377.9	370.6	362.7	354.7	346.9	338.1	329.3	320.7	312.3	305.3	297.0	28H.5	280.8	273.3	260.6	261.0
-	REL.HUM.	PERCENT	27.5	27.0	26.2	27.0	27.8	28.6	29.3	27.6**	10.6**																														
.T MSL MST	TEMPERATURE	DEWPOINT CENTIGRADE	-42.8	-43.8	6.44-	6.54-	6.94-	6-44-	6.84-	-20•6	-29.6								•																						
51.37 FEET MSL 0755 HRS MST	TEMF	AIR Degrées	-30.1	-31.0	-32.0	-33.4	-34.8	-36.2	-3/•6	-39.0	100	/•I+=	-45.6	0.01	0.17	140.0	140	0.81-	0.001	100.0	153.0	154.0	-55.0	-56.0	-56.9	-57.8	-58.8	-59•3	-59. <b>6</b>	-60.5	-29.9	-20.4	-58.9	-58.5	-58.8	-58.0	-56.9	-56.2	-55.6	-55.3	-55.9
rUOE 40 . 16	PRESJURE	MILLIUARS	402.9	394.4	380.0	377.7	369.5	361.5	9.050	346.1	0.950	0.155	323.6	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.600	2000	2000	2882	282.2	3,740	263.2	257.0	251.0	245.1	239.3	233.6	228.1	222.6	21/15	1.272	201.0	204.0	197.2	192.5	187.9	183.4	179.1	174.8	170.7	160.7	162.8
STATION ALII 31 MAR. B1 ASCENSION NO	GEUMETHIC	ALTITUDE MSL FEET	24000.0	24500.0	25000.0	•	26000.0	26500.0	2/000.0	27500.0		28500.0	29000-0	40000	30000-0	0.00000	31000.0	0.00010	32000.0	43000-0	33500.0	34000•0	34500.0	55000.0	35500.0	50000.0	36500.0	57000.0	37500.0	38000.0	38500.0	39000.0	39500.0	40000	40200.0	41000.0	41500.0	N		43000.0	43500.0

\*\* AT LEAST ONE ASSUMED RELATIVE HU...IDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE	UDE 4	051.37 FEET MSL 0755 HRS MST		UPPER AIR DAI 0900140016 LC-37	24 TA		E0DE11	HEODETIC COUNDINATES 32.40175 LAT DEG
ASCENSION	.05 16			TABLE 10 c	cont'		106.	106.31232 LON DEG
GEOMETRIC	PRESSURE	MPE	REL.HUM.		SPFFU OF	WIND DATA	4 L	INUEX
ALTITUDE		AIR	PERCENT	6M/CUB1C	SOLIND	DIRECTION	SPEEU	OF
MSL FEET	MILLIBARS	DEGREES CENTIGRADE		METER	NNOTS	()EGREES(IN)	KNOTS	REFRACTION
•	158.9	-55.9		254.9	574.2	24.8 - 5	81.3	1.000057
44500.0	155.2	-55.9		24A.9	574.2	249.7	82.0	1.000055
45000.0	151.5	-55.9		243.0	574.2	250.5	80.2	1.000054
45500.0	148.0	-56.0		237.3	574.1	251.4	77.1	1.000053
0.0000	144.0	1.00-1		231.9	574.0	252.0	73.9	1.000052
40000.0	137.7	-57.0		226.7	573.6	25242	70.7	1.000050
47500.0	134.4	-57.5		217.3	571.9	2526.0	66.0	1 - 0000049
44000.0	131.2	-58.3		212.7	571.0	251.6	7.49	1.000047
48500.0	128.1	-59.0		208.3	570.1	251.1	63.0	1.000046
0.00064	125.0	-59.6		203.9	569.3	250.7	61.7	1.000045
49500.0	122.0	-60.3		199.7	568.4	250•1	<b>90.4</b>	1.000044
0.00000	118.1	-61.0		195.5	567.5	248•8	58.2	1.000044
0.00014	115.5	-62-1		191.4	566.6	247.0	56.0	1 - 000043
51500.0	110.7	1 2 3 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C		167.0	240.U	24040	0 · · · · ·	1.000042
52000.0	108.0	9-79		172.0	266.1	742 et		1.000041
52500.0	105.4	-62.0		173.0	546	24243	57.7	0+0000-7
53000.0	102.9	-62.4		170.0	5,55.5	244.0	60.0	950000-1
53500.0	100.4	-62.8		166.2	565.0	245.5	61.7	1.000037
24000.0	6.76	-63-1		162.4	564.6	546.9	63.3	1.000036
54500.0	95.5	-63.2		158.6	564.4	248.1	64.8	1.000035
0.00000	7.00	-62.9		154.5	564.9	546.3	66.2	1.000034
0.00054	9 7 7 0	16.5		150.5	565.4	250.2	65.5	1.000034
56500•0	80.00	7.77		146.6	545.8	251.2	66.8	1.000033
57000.0	84.5	-61.5		139.1	5,66.7	251.0	60.6	1.000031
57500.0	84.5	-61.2		135.6	567.2	250 • 3	57.9	1.000030
58000.0	80.5	9-09-		132.1	547.7	249.3	56.1	1.000029
58500.0	78.5	2.09-		124,8	547.9	248.5	55.2	1.000029
•	1001	6-09-		125.8	547.6	248.5	56.2	1.000028
0.00060	2007	1.19-		122.9	567.4	247.2	57.2	1.000027
0.0000	•	61.5		120.0	547.1	247.7	57.4	1.000027
61000.0	7.69	161.5		117.2	566.8	247.5	57.4	1.000026
61500.0		161.0		1111	54.7 S	246.0	7	500000.1
62000.0		1.03-		10.1	0 4 7 3	246.4	50.0	000001
62500.0	2.49	6.65-		105.6	568.9	245.7	45.4	1.000024
63000.0	63.1	1-59-4		102.9	5,69,5	244.4	38.3	1.000023
63500.0	61.6	-58.9		100.2	5.075	242.5	31.2	1.000022

STATION AL	ruoe 40	51.37 FEET MSL 0755 HRS MST		UPPER AIN UATA 09001A0016 LC-37	DATA 16		6E00ETT	DINA LAT
SCENSION NO	. 16			TABLE 10	cont'		106.	106.31232 LON DEG
GEOMETRIC ALTITUDE	PRESSURE	TEMPERATURE AIR DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEFU OF	WIND DATA	TA SPEED	INUE X
MSL FEET	MILLIBARS	S		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
0.00049	60.1	-58.4		91.5	570.9	240.0	25.0	1.000022
0.00540	56.7	-59.0		95.5	570.1	235∙8	18.9	1.000021
65000.0	57.3	-59.4		93.6		258.5	13.7	1.000021
05500.0	55.9	-60.8		61.7		224.5	11.6	1.000020
0.00099	24.6	-61.4		84.8		517.9	9•6	1.000020
66500.0	53.2	-61-5		87.6		213.7	8.7	
67000.0	52.0	-61.5		85.5		215.4	9.1	1.000019
67500.0	) • OS	-61.3		4.50		217.0	9.5	1.000019
0.0000	C • 6 ± 5	-54.6		80.8		219.4	10.1	1.000018
66500.0	10.0	150.0		74.5	570.7	6.122	11.5	1.000017
69500.0	40.1	3.00-		76.07		226.9	12.2	1.000016
70000.0		-55.3		71.9		229.7	12.8	1.000016
70500.0	45.	-54.2		6.49	-	232.6	13.4	1.000016
71000.0		-53.6		64.1		236.7	13.9	1.000015
71500.0	41	-24·3		66.7		540.4	14.5	1.000015
72000.0	) ( ) ( ) ( ) (	155-1 155-1		4.59		243.8	すった	1.000015
73000-0		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6.14	5,75	2.142	2 0	1.0000.4
73500.0		-51.7		0.09		254.9	11.7	1.000013
74000.0		-50.6		5H . 3		259.4	10.4	1.000013
74500.0	30.4	-50.8		57.0	581.0	265.2	9.5	1.000013
75000.0	35.6	150.9		55.7	-	266.7	8.8	1.000012
7.500.0	7.40	151.0		34.5		268•2	J . 60	1.000012
7,5000.0	6.00	1010		53.3		269.5	ې د د	1.000012
77000.0	34.00	101		2000	0,000 0,000	268.5	<b>7 9</b>	1.000011
77500.0	31.7	-51.5		8.64		269.1	9	1.000011
78000.0	30.9	-51.6		48.6		271.9	5.5	1.000011
78500.0	30.2	-51.8		47.5		276.4	3.7	1.000011
79000.0	29.5	-51.3		46.4		286.2	2.5	1.000010
79500.0	58.9	-50.5		45.5		319.4	1.4	1.000010
80000.0	28.2	8.64-		0.11		24.1	1.5	1.000010
80500.0	5/10	0.64-		42.8		20•1	2.6	1.000010
81000.0	20.9	1 4 6 6		L - 1 + 1		58.7	ທ. ທີ່:	1.000009
•	2	7		\		/ • Co	•	1.00000
82000.0	200	146.8		39.65	546.1	66•1 65:3	۳. ۱	1.000000
4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 50			37.6		2.63	· -	1,00000
83500.0	24.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		36.7	508.6	133.5	¥•1	1.00000
	•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5	5	7	٠.	30000

GEODETIC COOMDINATE 32.40175 LAT EN 106.31232 LON OF	INDEX OF REFRACTION	1.000008	1.000007 1.000007 1.000007	1.000007 1.000007 1.000006 1.000006	1.000006 1.000006 1.000006 1.000006	1.000005 1.000005 1.000005 1.000005	1.000005 1.000005 1.000005 1.000006 1.000004 1.000004	1.000004 1.000004 1.000004 1.000004 1.000004 1.000004 1.000004 1.000004
, \$E ODE T   32 • 106 •	SPEED KNOTS	3.0 6.0 8.7	9.4 10.1 10.6 9.3	6.0 6.1 7.0 7.0	# W W #	44 B B B	5 5 7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	60000000000000000000000000000000000000
	WIND DATA DIRECTION S	254•7 252•9 252•3	252.2 252.1 252.0 251.1	250.0 246.5 245.5 241.9	237.7 234.4 231.3 228.2	223.4 216.2 207.0 194.3 176.1	156.7 140.1 130.1 122.1 115.7 118.3	1299.8 1399.8 1664.5 1756.4 186.0 186.0 186.0
UaTa Ole Cont'	SPEFU OF SOUND KNOTS	548.2 547.8 587.4	587.1 586.7 587.3 588.0	5A9.5 5A9.5 540.3	592.0 592.8 593.6 594.4	595.3 596.1 597.7 597.7	599.0 599.4 599.9 600.3 600.8	509.7 509.1 508.7 508.7 508.7 508.7 508.7 508.7
UPPER AIR DAT 0900140016 LC-37 TABLE 10 CONT	DENSITY S GM/CUBIC METER	35.9 35.1 34.4	33.7 32.9 32.1 31.3	30.6 24.8 29.1 28.4	27.7 27.0 26.3 25.3	25.0 25.0 25.0 25.0 25.0 25.0 25.0	22.1 21.6 21.1 20.6 20.2 19.3	19.0 18.6 17.7 17.7 16.7 16.3 16.3 15.3 15.3
	REL.HUM. PERCENT							
EET MSL S MST	TEMPERATURE R DEWPOINT EES CENTIGRADE							
4051.37 FEET MSL 0755 HRS MST 6	TEMI AIR DEGREES	-45.2 -45.8	-46.1 -46.4 -45.9	144.0	142.5	-39.0 -39.0 -38.4 -37.1	136.6 136.0 135.0 135.3 135.3 135.3	136.2 136.6 137.0 137.0 137.0 137.0 137.0 137.0
1 <sup>UDE</sup>	PRESSURE MILLIBARS	23.5	21.9 21.4 21.0 20.5	20.0 19.6 19.2	2777		ひききき かりつり	
STATION ALTITUDE 31 MAR. 81 ASCENSION NO.	GEUMETRIC ALTITUDE MSL FEET	84500.0 84500.0 85000.0	85500.0 86000.0 86500.0 87000.0	87500.0 88000.0 88500.0	99500.0 90000.0 90500.0	91500.0 92000.0 92500.0 93000.0	94000.0 94500.0 95000.0 95500.0 96500.0	97500.0 98000.0 98000.0 99000.0 100000.0 101500.0 102500.0

"EODETIC COURLINATES 32.40175 LAT DEG 106.31232 LON DEG	INDEX ED OF ITS REFRACTION	18.3 1.000003	20.4 1.000003	1.000003	1.000003	1.000003	1.000003	9.4 1.000003	9.0 1.000003	9.6 1.000003	1.1 1.000003	12.7 1.000003	1.000003	3.8 1.000002	1.000002	1.000002	1.000002	1.000002	1.000002
, i.E.O	WIND DATA DIRECTION SPEED DEGREES(IN) KNOTS	177.8					178.2			184.4					189.5	194.3			
aTA 6 ont'	SPEFU OF SOUND KNOTS	598.6	548.5	598.5	598.4	598.3	598.3	548.2	598.2	598.1	598.0	598.0	597.9	597.8	597.8	597.7	597.7	598.4	549.2
UPPER AIR UATA 0900180016 LC-37 TABLE 10 cont'	DENSITY S GM/CUBIC METER	14.3	14.0	13.7	13.4	13.1	12.9	12.6	12.3	12.1	11.8	11.5	11.3	11.1	10.8	10.6	10.4	10.1	6.6
-	REL.HIM. PERCENT																		
4051.37 FEET MSL 0755 HRS MST 16	PRESSURE TEMPERATURE AIR DEWPOINT MILLIDARS DEGREES CENTIGRADE	-37.1	-37-1	-37.2	-37.2	-37-3	-37.3	-37.4	-37.4	-37.5	-37.5	-37.6	-37.6	-37.7	-37.7	-37.8	-37.8	-37.2	-36.6
	PRESSURE AILLIDARS	4.7	9.5	D. 0	7.5	6.0	4.7	ς•2	۳. ع	8.2	O• 20	7.8	9./	7.5	7.3	7.2	0.7	6.0	1.0
STATION ALTITUDE 31 MAR. 81 ASCENSION NO.	GEUMETRIC ALIITUDE MSL FEET N	104000.0	104500.0	105000.0	105500.0	106000.0	106500.0	107000.0	107500.0	108000.0	108500.0	109000.0	109500.0	110000.0	110500.0	111000.0	111500.0	112000.0	112500.0

heodetic coordinates 32.40175 lat deg 104.31235 lon deg	A	DIRECTION SPEED DEGREES(IN) KNOTS	5 x.7									7 54.3													8 13.7				D•0	0 14.8	
		DIRE LEGRE	341.5	294.1	283.2	277.2	270.1	266.9	261.1	258.5	258.9	252.7	248.0	245.8	247.6	243.6	245.7	250.8	250 • 7	542.6	249.1	4.7.47	239.9	218.1	246.8	277.9	65.0	250 • 1	157.4	181.0	
tvfi S 16	KFI .HUM.	PERCENI	31.	35.	46.	.66	21.	20.	20.	19.	22.	28.	30.																		
HANDATORY LEVFIS 09001A0016 LC-37 TABLE 11	TEM: ERATURE	DEWPOINT CENTIGRADE	-5.5	-6.5	z.7-	-16.1	-22·h	-26.0	-30.4	-35.7	-39.1	-43.0	<b>†*6</b> †-																		
Ī	TEMP	AIK DEGREES	11.0	7.9	3.5	Ю. 1	-3.4	-7.0	-11.9	-17.8	-23.3	-30.5	-38+3	-42.9	-55.2	-59.2	-56・3	-52.9	-59.6	-65.9	-60-7	9.19	-58·4	-50.1	-54.6	-51.8	-45.9	-44.8	-36.8	-37.0	-37.8
T MSL 4ST	PRESSURE GEOPOTENTIAL	FEET	5009	6658.	8390.	10215.	12146.	14208.	16415.	18782.	21344.	24130.	27198.	30616.	34512.	39114,	41873.	45094	48875	53411.	57934.	00000	63813.	67537.	72194.	78321.	62251.	<b>87132.</b>	93560.	102780.	110861.
: 4051.37 FEET MSL 0755 HRS MST 16	PRESSURE G	MILLIBARS	A50.0	800.0	750.0	200.0	650.0	600.0	550.0	200.0	450.0	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	0.0	0.09	20.0	0.04	30.0	25.0	50.0	15.0	10.0	7.0
STATION ALTITUDE 31 MAR. B1 ASCENSION NO.																															

STATION ALTITUDE 4126.59 FEET MSL 31 MAR. 81 0655 HRS MST ASCENSION NO. 53	18L 5T	SIGNIFIC 09 HOL TAB	SIGNIFICANT LEVEL D 0900010053 HOLLOMAN TABLE 12	UATA	GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG
38152386	SE GEOMETRIC	TEMPE	TEMPERATURE	PF1 . HUM.	
		7 010	DE WOOT	BERCENT	
MILLIBARS	S MSL FEET	DEGREES	CENTIGRADE		
876.4	4126.6	5.6	-5.7	0.44	
866.2	4444.3	11.3	-2.8	37.0	
920 • 0		10.6	-3.8	36.0	
0.007	_	-1.6	-11.1	48.0	
₩•899		-3.9	-17.1	35.0	
0.659	11727,8	-3.7	-21.8	23.0	
629.3	12920,1	-5.7	-25.0	20.0	
0.005		-19.1	-33.3	27.0	
472.6	•	-21.0	-36.2	24.0	
0.004		-31.3	-45.B	31.0	
388•4		-32.1	-42.1	36.0	
<b>す。 からら</b>		9.04-	F+6+-	38.0	
327.9	28583.0	9.04-			
300.		-45.7			
250.0	<u>ب</u>	-54.7			
232.8		-57.8			
228•0	36401.2	-56.2			
8-28-1		19.0			
171.5		-58.0			
163.8		-59.0			
162.5		-56.7			
150.0		-57.1			
128.0		-59.6			
117.2		-59.6			
1.601		8.75			
0.f01 6.f0	57766	8.65-			
3.10		4.04			
1-4-4	-				
3 · SC	65631.1	-58.6			
50.0	67741.3	-62.4			
₩•€₽	70504.4	-52.6			
39.2		-55.1			
33.6	76152.0	-50.1			
30.0		-51.4			
22.8		9.44-			
20.0	87475.2	Q. (1)			
0 • 1 T		14.0 * C			

FEMPERATURE REL.IUJM, DENSITY SHEED OF WIND DATA INDEX AIR DEMPORINT PERCENT GW/CUBIC SOUND DIRECTION SPEED OF GRACES CENTIGABLE STATES CENTIGABLE SOUND DIRECTION SPEED OF GRACES CENTIGABLE SOUND DIRECTION SPEED OF GRACES CENTIGABLE SOUND STATES CONTRIBED OF GRACES CENTIGABLE SOUND STATES CONTRIBED SOUND SOUND SOUND SOUND SOUND STATES CONTRIBED SOUND	TATION ALTIT	UDE 41	26.59 FEET M 0655 HRS MST	ET MSL MST	-		241A 53		LEODETI	J2.88865 LAT DEG
E TEMPERATURE REL.HUM. DENSITY SHEED OF WIND DATA IN DEMPOINT PERCENT GM/CUBIC SOUND DIRECTION SPEED REL.HUM. DENSITY SHEED CALIFORDE CA	ľá •	_				TABLE 13			106.	S S
AART DEMPOTATION         PROCESS         CANDING         DIRECTION	PRESSURE	A Fi	TEM	PERATURE	REL . HUM.	DENSITY	SPEED OF	WIND DA	1 A	INDEX
5.6         -5.7         44.0         1093.4         651.0         30.0         4.1           111.2         -2.9         35.9         1056.7         65.0         27.7         12.4         64.1           110.5         -3.9         35.9         1025.3         655.8         35.1         133.4           7.0         -5.8         37.2         1025.3         655.3         357.0         90.0           7.0         -5.8         40.7         96.1         648.5         35.1         133.4           4.6         -7.9         41.9         967.0         648.5         287.0         10.6           2.3         -6.5         40.7         36.4         30.4         30.4         90.0           1.1         -9.4         44.2         92.0         648.5         289.0         10.6           1.1         -9.4         44.2         92.0         648.5         289.0         10.6           1.1         -9.4         44.2         92.0         648.2         27.0         10.6           1.1         -10.1         46.5         91.0         64.2         92.0         10.6           1.1         -10.1         46.5         91.0	MILLIBAR	RS	AIR DEGREES	CENTIGRADE			SOUND KNOTS	DEGREES (TN)	SPEEU KNOTS	OF REFHACTION
11.2	876.	ŧ	5.6	-5.7	0.44	1093.4		0	•	1.000263
10.5	864.	<b>3</b>	11.2	-2.9	36.9	1056.7	657.7	12.4	•	1 • 000258
9.3 -4.5 37.2 1025.3 655.4 355.2 133.4 133.4 100.5 100	848.	8	10.5	-3.9	36.1	1040.3	656.8	2.7	9.8	1.000253
8.2         -5.1         38.4         1010-6         654.0         353.1         13.4           5.8         -6.5         40.7         98.1         655.7         344.0         10.8           5.8         -6.5         40.7         96.1         649.9         344.0         10.8           3.5         -7.2         41.9         967.0         649.9         304.5         10.9           1.1         -9.4         45.3         97.0         645.7         271.7         14.8           1.1         -9.4         46.5         90.0         646.9         304.5         10.6           -1.2         -10.1         46.5         90.0         646.7         271.7         14.8           -2.3         -12.7         44.3         867.3         644.6         271.6         22.3           -2.4         -12.7         44.3         867.3         644.6         271.6         22.3           -4.2         -12.7         44.3         867.3         644.6         271.6         271.6           -5.9         -25.8         20.1         80.0         87.0         271.6         271.6           -5.9         -27.8         867.3         641.6         2	833.1	_	9.3	5-11-	37.2	1025.3	655.4	358.2	3.	1.000249
7.0 -5.6 39.6 996.1 652.7 344.0 10.8 4.6 4.6 5 4.0 96.1 652.7 344.0 10.8 4.6 5 4.0 96.1 652.7 344.0 10.7 996.1 652.7 344.0 10.7 954.0 648.5 289.0 10.6 11.0 4.2 4.0 4.2 97.0 648.5 289.0 10.6 11.0 4.5 3 97.0 648.5 289.0 10.6 11.0 11.0 4.5 3 91.3 641.6 527.1 14.8 11.0 14.2 927.0 648.5 289.0 10.6 11.0 11.0 11.0 11.0 11.0 11.0 11	817.6	و	8.2	-5.1	38.4	1010.6	654	353+1	'n	1.000245
5.8         -6.5         40.7         981.8         651.3         327.0         9.0           3.5         -7.9         41.9         967.0         648.9         327.0         9.0           2.3         -7.9         43.0         967.0         648.9         289.0         10.6           2.3         -7.9         43.0         967.0         648.9         268.9         10.6           -1.1         -10.1         46.5         967.0         645.1         271.7         14.8           -1.2         -10.1         47.6         960.0         642.9         268.6         18.2           -2.2         -10.2         47.6         960.0         642.9         268.6         18.2           -3.2         -10.2         47.6         960.0         642.9         268.6         18.2           -3.2         -10.2         44.5         867.2         639.1         274.4         268.9           -3.6         -10.2         30.4         859.2         639.1         277.6         28.3           -5.0         -20.1         817.3         639.1         27.7         36.4           -5.0         -20.1         817.3         639.1         27.7	805	ن	7.0	-5.8	39.6	996.1	652	344.0	0	1.000241
4.6         -7.2         41.9         967.8         649.9         304.5         8.5           2.5         -7.2         41.9         964.0         648.5         269.0         10.6           2.5         -8.6         44.2         964.0         648.5         269.0         10.6           -1.1         -10.1         47.6         900.8         642.1         279.0         12.9           -2.3         -12.7         44.5         900.8         642.6         267.6         18.2           -2.3         -12.7         44.5         867.3         641.6         277.7         18.6           -3.2         -12.7         44.5         867.3         641.6         277.6         22.3           -4.2         -22.5         22.3         87.7         640.4         277.7         36.9           -4.2         -27.6         22.3         844.0         639.1         277.7         36.9           -4.2         -27.6         21.3         792.3         639.1         277.7         36.9           -4.2         -27.6         21.3         76.1         632.9         56.9         40.0           -4.2         -27.6         21.3         762.1	787	φ.	8°5	5.9	40.7	981.8	651.3	327.0	0.6	1.000237
3.5         -7.9         43.0         954.0         648.5         289.0         10.6           1.3         -9.6         44.2         927.0         645.7         271.0         12.9           1.1         -9.6         45.5         913.8         644.3         268.9         16.6           -1.2         -10.1         46.5         900.8         642.9         267.6         18.2           -2.3         -15.2         38.9         873.3         641.6         271.6         22.3           -3.6         -18.6         30.4         859.2         639.6         276.5         276.5           -4.2         -27.6         22.3         844.0         639.1         277.6         28.3           -5.9         -25.1         20.1         817.3         637.0         277.6         35.1           -5.9         -25.1         20.1         817.3         637.0         277.6         35.1           -6.9         -27.1         20.1         817.3         637.0         277.6         35.1           -6.9         -27.1         817.3         638.1         277.6         35.1           -7.0         -27.1         20.1         817.3         272.9	73	Ξ.	4.6	-7.2	41.9	967.8	6.649	304.5	8.5	1.000233
2.3 -8.6 44.2 940.4 647.1 279.0 12.9  2.1 -9.4 45.3 940.4 645.7 261.7 14.8  -1.2 -10.9 47.6 900.8 642.9 267.6 18.2  -2.3 -12.7 44.3 887.3 641.6 274.4 26.6  -3.6 -18.6 30.4 859.2 639.6 274.6 22.3  -4.2 -25.5 22.3 844.0 639.1 277.7 36.9  -5.9 -25.1 20.1 887.5 639.1 277.7 36.9  -7.0 -25.8 20.7 844.7 628.1 277.7 36.9  -10.5 -27.8 22.5 768.1 632.9 269.8 40.0  -11.7 -28.5 22.7 748.1 631.5 269.8 40.0  -11.7 -28.5 22.7 748.1 631.5 269.1 40.2  -11.7 -28.5 25.7 744.1 631.5 269.1 40.2  -14.6 -30.7 24.9 72.1 62.9 269.1 40.2  -15.2 -30.7 24.9 72.1 62.9 269.1 40.7  -16.3 -31.5 25.5 700.2 62.0 269.1 41.1  -20.9 -36.0 24.2 66.2 61.0 7 251.0 69.6  -20.9 -36.0 24.2 66.2 61.0 27 251.0 69.1  -20.9 -36.0 24.2 66.2 601.3 251.0 57.5  -20.1 -36.8 24.8 644.0 617.3 251.0 57.5  -20.2 -36.0 24.2 66.2 610.3 251.0 57.5  -20.3 -40.9 30.0 585.9 667.7 251.0 57.9 17.0  -20.9 -40.9 30.0 585.9 667.7 251.0 57.9 17.0  -20.9 -40.9 30.0 585.9 667.7 251.0 57.9 17.0  -20.9 -40.9 30.0 585.9 667.7 251.0 57.9 17.0	758	ထ္၊	<b>8</b>	-7.9	43.0	954.0		289.0	10.6	1.000229
1.1	557	-	2.3	-8-6	t t • 5	h•0h6		279.0	12.9	1,000225
-11 -10-1 46.5 91.8 644.3 266.9 16.6 16.6 17.2 -10.9 47.6 990.8 642.9 267.6 18.2 18.2 18.2 18.3 641.6 27.6 27.6 22.3 18.3 18.9 873.7 640.4 274.6 26.6 22.3 18.9 873.7 640.4 274.6 26.6 27.0 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	730	<b>6</b>	1.1	<b>†•6−</b>	45.3	927.0		271.7	14.8	1.000222
-1.2 -10.9 47.6 900.8 642.9 267.6 18.2 -2.3 -12.7 10.9 47.6 900.8 642.9 267.6 18.2 -2.3 -12.7 44.3 687.3 641.6 274.4 26.6 22.3 -15.2 18.9 873.7 640.4 274.4 26.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	717	<b>3</b>		-10-1	46.5	913.8	644.3	568.9	16.6	1.000218
-2.3 -12.7 44.3 687.3 641.6 271.6 22.3 -13.2 -13.2 44.5 639.6 539.6 276.5 31.3 -13.2 -13.2 -13.2 18.9 673.7 640.4 274.4 26.6 -13.2 -13.2 -13.2 22.3 844.0 639.1 277.7 36.9 277.0 35.9 -13.2 -2.3 844.0 639.1 277.7 36.9 277.0 35.9 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	704-1	٦,	-1.2	6-01-	47.6	8.006	645.9	267.6	18.2	1.000214
-3.2 -15.2 38.9 873.7 640.4 276.4 26.6 -3.8 -3.8 -18.6 30.4 859.2 639.6 277.7 36.9 27.7 36.9 -3.8 -18.6 30.4 859.2 639.6 277.7 36.9 27.7 25.9 27.1 817.3 637.0 277.0 35.9 27.7 25.9 20.1 817.3 637.0 277.0 38.4 27.0 -25.8 20.7 804.7 635.7 275.5 39.3 27.1 21.3 79.2 36.4 27.2 27.8 22.5 766.1 631.5 269.0 40.0 11.7 22.6 23.1 776.1 631.5 269.0 40.0 11.7 22.6 23.1 774.7 628.7 268.0 40.0 11.7 22.6 23.1 774.7 628.7 268.0 40.0 11.7 22.6 23.1 774.7 628.7 268.0 40.0 11.7 27.2 25.5 701.2 629.1 40.0 11.7 27.2 26.2 4.9 772.1 624.4 268.0 40.0 11.7 27.5 -32.2 26.2 701.2 623.0 26.9 16.7 19.5 -33.0 26.8 69.6 621.6 220.9 46.7 19.5 -33.0 26.8 644.0 617.3 253.9 49.1 253.4 26.5 65.0 621.6 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 19.7 253.9 10.0 224.7 26.5 614.0 617.3 252.5 59.0 26.6 -410.9 29.2 60.9 3.7 252.5 59.0 26.5 614.0 614.1 253.0 253.9 26.5 614.0 617.3 252.5 59.0 26.5 614.0 617.3 252.5 59.0 26.5 614.0 614.1 253.0 252.5 26.0 20.0 26.0 26.0 26.0 26.0 26.0 26.0	069	<b>م</b>	-2.3	-12.7	44.3	687.3	641.6	271.6	22.3	1.000209
-3.8 -18.6 30.4 859.2 639.6 276.5 31.3 -4.2 -25.5 22.3 844.0 639.1 277.6 35.1 -5.9 -25.1 20.1 817.3 637.0 277.7 36.9 1 -25.9 -25.1 20.1 817.3 637.0 277.7 36.9 1 -25.9 -25.1 20.1 817.3 637.0 277.0 38.4 -27.0 -27.1 20.1 817.3 637.0 277.0 38.4 -27.1 20.1 817.3 637.0 277.0 38.4 -27.1 22.5 768.1 631.5 268.0 40.0 11.7 -28.5 23.1 768.1 631.5 268.0 40.0 11.7 -28.5 23.1 744.7 628.7 268.1 40.0 11.7 -28.5 23.7 744.7 628.7 268.1 40.0 11.7 28.5 23.7 744.7 628.7 268.1 40.0 11.7 24.9 772.1 628.7 268.1 40.0 11.7 28.5 23.7 70.2 628.1 40.0 26.3 689.6 621.6 264.2 46.7 11.6 25.0 26.8 689.6 621.6 264.2 46.7 11.8 25.0 26.8 689.6 621.6 250.9 46.7 11.9 25.1 25.0 26.8 644.0 617.3 255.1 51.5 22.1 -26.0 -26.1 41.0 617.3 251.0 57.5 12.5 26.0 -27.1 28.4 26.5 619.3 252.5 57.1 28.6 -40.9 29.2 27.4 614.0 617.3 252.9 59.0 -27.3 -40.1 28.3 604.6 6010.9 251.4 55.1 -26.0 -41.8 30.0 585.9 607.7 252.5 57.9	677	٠,	-3.2	-15.2	38.9	÷	4.049	274.4	56.6	1.000204
-4.2 -22.5 22.3 844.0 639.1 277.7 35.9 -4.2 -25.0 -25.4 21.1 8130.5 638.1 277.7 35.9 -5.9 -25.0 -25.8 20.1 813.0 638.1 277.7 35.9 -5.9 -25.1 20.1 813.0 277.0 277.1 38.9 -25.0 -25.8 20.7 69.1 632.9 269.6 40.0 -27.0 -27.8 21.3 778.1 632.9 269.6 40.0 -27.1 21.9 778.1 631.5 269.6 40.0 -11.7 -28.5 23.1 776.1 631.5 269.0 40.0 -11.7 -28.5 23.1 776.1 631.5 269.0 40.0 -11.7 -28.5 23.1 775.3 628.7 269.1 40.0 -11.7 -28.5 23.1 775.3 62.1 62.0 269.1 40.0 -11.7 -28.5 25.5 7711.1 62.4 268.5 269.1 40.0 -11.7 -28.5 25.5 7711.1 62.4 268.5 39.4 -11.7 -28.0 26.3 678.1 620.5 260.9 46.7 -11.7 -28.8 24.8 644.0 617.3 251.9 55.0 -22.1 -36.8 24.8 644.0 617.3 251.9 55.0 -22.1 -36.8 24.8 644.0 617.3 251.9 55.0 -22.1 -36.8 24.8 644.0 617.3 251.9 55.0 -22.1 -36.8 24.8 644.0 617.3 251.9 55.0 -22.1 -36.8 24.8 644.0 617.3 251.9 55.0 -22.1 -40.9 29.2 595.2 609.3 252.5 597.9 -40.9 -40.9 29.2 595.2 609.3 252.5 597.9 -40.9 -40.9 29.2 595.9 607.7 252.3 252.5 577.9 -40.9 -40.9 29.2 595.9 607.7 252.3 252.5 577.9 -40.9 29.2 595.9 607.7 252.3 252.5 577.9 -40.9 29.2 595.9 607.7 252.3 252.5 577.9 -40.9 29.2 595.9 607.7 252.3 252.5 577.9 252.9 252.5	99	<b>3</b> 0 ·	-3.8	-18.6	30.4	859.2	639.6	276.5	31.3	1.000199
-5.9 -25.8 21.1 817.3 637.0 277.0 36.9 -5.9 -25.1 20.1 817.3 637.0 275.5 39.3 -5.9 -25.1 20.1 817.3 637.0 275.5 39.3 -6.4 3 2.2 26.4 21.3 792.3 634.3 272.9 39.7 39.7 -9.4 -27.1 21.9 780.1 632.9 269.6 40.0 40.0 -10.5 -27.8 22.5 768.1 631.5 266.0 40.0 40.0 -10.5 -29.2 23.1 756.3 630.1 266.0 40.0 -10.5 -29.2 23.1 744.7 628.7 266.0 40.0 -10.5 -29.2 23.7 744.7 628.7 266.0 40.0 -10.5 -30.7 24.9 722.1 625.8 269.1 40.0 -10.5 -30.0 24.9 722.1 625.8 269.1 39.4 -10.5 -31.5 26.2 700.2 623.0 264.2 41.4 -10.5 -35.0 26.3 669.6 621.6 264.2 46.7 -26.9 -36.0 24.2 663.0 670.5 260.9 46.7 -26.0 -36.0 24.2 654.4 618.8 255.1 51.5 -220.9 -36.9 674.0 617.3 251.9 55.6 -220.9 -36.9 251.0 55.6 -220.9 -36.9 29.2 60.9 55.0 -40.9 29.2 55.0 -41.8 30.0 585.9 607.7 252.3 57.9 -41.8 30.0 585.9 607.7 252.3 57.9	929	<b>-</b>	2.5	-22.5	22.3	0.750	639.1	2/7.6	35.1	1.000193
-5.9 -25.1 20.1 817.3 637.0 277.0 58.4 -27.0 -25.8 20.7 804.7 635.7 275.5 39.3 -8.2 -26.4 21.3 792.3 634.3 272.9 39.7 -9.4 -27.1 21.9 780.1 632.9 269.6 40.0 1.0.5 -27.8 22.5 760.1 632.9 269.6 40.0 1.0.5 -27.8 22.5 760.1 632.9 269.6 40.0 1.0.5 -29.2 23.7 744.7 628.7 260.1 40.0 1.0.5 -29.2 23.7 744.7 628.7 260.1 40.0 1.0.5 -30.7 24.9 722.1 625.8 269.1 40.0 1.0.5 -30.7 24.9 722.1 625.8 269.1 39.4 1.0.5 -32.2 26.2 700.2 623.0 269.1 39.4 1.0.5 -32.2 26.3 678.1 620.5 260.9 46.7 1.0.5 -33.0 26.3 678.1 620.5 260.9 46.7 1.0.5 -33.0 26.3 678.1 620.5 250.9 49.1 -20.9 -36.0 24.2 654.4 618.8 255.1 51.5 -20.9 -36.0 24.2 654.4 618.8 255.1 51.5 -20.9 -36.0 24.2 654.0 617.3 253.4 551.0 57.5 1.0.5 -20.1 20.3 20.3 59.1 1.0.5 -20.1 20.3 59.1 1.0.5 -20.3 -40.1 28.3 604.6 610.9 251.4 59.0 1.0.5 -20.3 59.0 -41.8 30.0 585.9 607.7 252.3 57.9	ŝ	0 '	0.0-	23.8	117	820.5	6.78.1	7.1.2	50.9	1.000190
-7.0 -27.6 20.7 604.7 635.7 272.9 39.3 -7.0 -27.1 21.3 792.3 634.3 272.9 39.7 -7.1 -7.1 21.9 760.1 632.9 269.6 40.0 -10.5 -27.8 22.5 760.1 632.9 269.6 40.0 -11.7 -28.5 23.1 756.3 630.1 266.0 40.0 -11.7 -28.5 23.7 744.7 628.7 260.1 40.0 -15.2 -30.7 24.9 722.1 628.7 260.1 40.0 -17.5 -32.2 25.5 701.2 625.8 269.1 39.4 -17.5 -32.2 26.2 701.2 625.8 269.1 39.4 -17.5 -32.2 26.2 701.2 62.0 261.2 261.1 41.1 16.9 -36.0 24.2 666.2 619.7 257.9 49.1 -20.9 -36.0 24.2 656.2 619.7 257.9 49.1 -20.9 -36.0 24.2 654.4 614.8 253.4 553.6 -20.9 -36.4 614.2 612.5 253.4 553.6 -40.1 28.3 604.6 610.9 251.4 59.1 -26.5 610.9 29.2 50.3 59.1 -26.5 610.9 29.2 50.0 585.0 501.7 252.5 57.9 -41.8 30.0 585.9 617.7 252.5 57.9	20	?	6.51	-25-1	20.1	817.3	637.0	217.0	38.4	1.000186
-9.4 -27.1 21.9 780.1 632.9 269.6 40.0 -9.4 -27.1 21.9 780.1 632.9 269.6 40.0 -9.4 -27.8 22.5 768.1 631.5 268.0 40.0 -10.5 -29.2 23.1 756.3 628.7 268.0 40.0 -10.2 -10.2 25.2 774.7 628.7 269.1 40.2 -14.0 -30.0 24.3 772.1 628.7 269.1 40.0 -15.2 -30.7 24.9 722.1 625.8 269.1 40.0 -15.2 -30.7 24.9 722.1 628.9 269.1 39.4 -17.5 -32.2 26.2 700.2 623.0 267.1 41.1 -17.5 -33.9 26.3 678.1 620.5 250.9 46.7 -20.2 -35.0 25.2 666.2 619.7 257.9 49.1 -20.9 -36.8 25.6 644.0 618.8 253.4 53.6 -20.9 -36.8 25.6 644.0 617.3 253.4 53.6 -20.9 -20.1 28.3 604.6 610.9 251.0 57.5 -20.0 -30.0 29.2 27.4 614.2 612.3 252.5 59.0 -41.8 30.0 585.9 607.7 252.3 57.9 -41.8 30.0 585.9 607.7 252.3 57.9	70		0.7-	8-52-8	20.7	204.7	635.7	272.5	5.63	1.000183
10.5		0 0	7.0	-50.4	21.3	200	634.3	6.272	7.60	091000-1
11.7	ָר ער ער ער	, r	) (	10/2	21.9	7.00/	632.9	8.607		770001
12.8	ע	7 0		9.72	6443	1.80/	631.5	7,007	\	1.000173
14.0	ט ע	, ,		000	7 7 7 7	0.00	1.000	0.002		7,1000.
15.2	ָר ה			7.67	200	744.	628.	1.002	70	1.000166
16.5 - 31.5 25.5 711.1 624.4 268.5 39.8 17.5 - 32.2 26.2 700.2 623.0 264.2 43.7 17.1 624.2 624.2 43.7 17.1 620.5 - 33.0 26.3 689.6 621.6 264.2 43.7 17.1 620.5 - 35.0 25.2 656.2 619.7 257.9 49.1 17.2 22.1 - 36.8 24.8 644.0 617.3 253.4 55.6 17.3 223.4 55.6 17.3 253.4 55.6 17.3 223.4 55.6 17.3 223.4 55.6 17.3 223.4 55.6 17.3 223.4 55.6 17.3 223.4 55.6 17.3 223.4 55.6 17.3 225.9 55.6 17.3 225.9 59.1 17.2 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	3	σ		2000	0 40	722		1.653		941000
17.5	ט נ	, n	7.01		י ש ה ה	711	0.070	268.5	* 6	100001
18.6	2 0	-	10.0	010	26.3	7007	7 · · · · · · · · · · · · · · · · · · ·	267.1	2.60	101000.
19.5	5.5	0	9.81	3.76	7 4 7 6	A. C.	0.000	7 - 102	7 7 7	1.000156
17.9       -53.9       -50.9	3		0.01		2000	6.600		2.60		001000.1
20.2 -55.0 25.2 656.2 619.7 257.9 49.1 1 20.9 -20.2 -55.0 24.2 64.0 618.8 255.1 51.5 1 21.5 1 22.1 -35.6 25.6 64.0 617.3 255.4 53.6 1 22.1 -37.6 25.6 64.0 617.3 253.4 53.6 1 22.1 -27.1 -36.4 26.5 624.0 614.1 251.0 57.5 1 22.0 -31.2 27.4 614.2 612.5 250.3 59.1 1 26.0 -40.1 28.3 604.6 610.9 251.4 59.1 1 28.6 -40.9 29.2 595.2 669.3 252.5 59.0 1 22.2 29.9 -41.8 30.0 585.9 667.7 252.3 57.9 1			C+61-	6.00	2007	1.00		6.007	• 0	1.0001
.0     -20.9     -36.0     24.2     654.4     618.8     255.1     51.5     1       .2     -22.1     -36.8     24.8     644.0     617.3     253.4     53.6     1       .1     -23.4     -37.6     25.5     633.9     615.7     251.9     57.6     1       .1     -24.7     -36.4     26.5     624.0     614.1     251.0     57.5     1       .8     -26.0     -36.2     27.4     614.2     612.5     250.3     59.1     1       .8     -27.3     -40.1     28.3     604.6     610.9     251.4     59.1     1       .9     -28.6     -40.9     29.2     595.2     669.3     252.5     59.0     1       .2     -29.9     -41.8     30.0     585.9     667.7     252.3     57.9     1	60	٠ د د	2.00-	-35.0	ô.	666.2		55/49	1.64	1.000150
22.1 -36.8 24.8 644.0 617.3 253.4 53.6 1.00014	474	0	-20.9	-36.0	<b>.</b>	h•hc9	618.8	255.1	51.5	1.000147
.5 -23.4 -37.6 25.6 633.9 615.7 251.9 55.6 1.00014 .1 -24.7 -36.4 26.5 624.0 614.1 251.0 57.5 1.00014 .8 -26.0 -3 <sup>c</sup> .2 27.4 614.2 612.5 250.3 59.1 1.00013 .8 -27.3 -40.1 28.3 604.6 610.9 251.4 59.1 1.00013 .9 -28.6 -40.9 29.2 595.2 669.3 252.5 59.0 1.00013 .2 -29.9 -41.8 30.0 585.9 667.7 252.3 57.9 1.00013	797	2	-22.1	-36.8	#	0.44.0	617.3	253.4	53.6	1.000145
.1 -24.7 -36.4 26.5 624.0 614.1 251.0 57.5 1.00014 .8 -26.0 -3 <sup>(1</sup> .2 27.4 614.2 612.5 250.3 59.1 1.00013 .8 -27.3 -40.1 28.3 604.6 610.9 251.4 59.1 1.00013 .9 -28.6 -40.9 29.2 595.2 669.3 252.5 59.0 1.00013 .2 -29.9 -41.8 30.0 585.9 667.7 252.3 57.9 1.00013	S	٠ د	-23.4	-37.6	'n	633.9	615.7	251.9	55.6	1.000143
-8 -26.0 -3 <sup>(1</sup> -2 27.4 614.2 612.5 250.3 59.1 1 -8 -27.3 -40.1 28.3 604.6 610.9 251.4 59.1 1 -9 -28.6 -40.9 29.2 595.2 6n9.3 252.5 59.0 1 -2 -29.9 -41.8 30.0 585.9 6n7.7 252.3 57.9 1	3		-24.7	-36·4	•	624.0	614.1	251.0	57.5	1.000140
.8 -27.3 -40.1 28.3 604.6 610.9 251.4 59.1 1 .9 -28.6 -40.9 29.2 595.2 6n9.3 252.5 59.0 1 .2 -29.9 -41.8 30.0 585.9 6n7.7 252.3 57.9 1	3	S.8	-26.0	-34.5	7	614.2	615.5	250.3	59.1	1.000138
•9 -28•6 -40•9 29•2 595•2 609•3 252•5 59•0 1• •2 -29•9 -41•8 30•0 585•9 607.7 252•3 57•9 1•	25	•	-27.3	-40.1	φ.	9.409	610.9	5.	59.1	1.000136
·2 -29·9 -41·8 30·0 585·9 6n7.7 252·3 57·9 1·0001	<b>-</b>	٠	-28.6	6.01-	6	595.2	609.3	•	ċ	1.000134
	409	•	-29.9	-41.8	•	585.9	1.709	N		

STATION ALTI 31 MAR. B1 ASCENSION NO	TUDE 41	26.59 FEET MSL 0655 HRS MST	ET MSL MST	_	UPPER AIR DAT 0900010053 HOLLOMAN TABLE 13 CON1	DATA 053 cont'		6EODETIC 32.86 106.09	DETIC COOKDINATES 32.6BB65 LAT DEG 106.09965 LON DEG
GEOME TRIC	PRESSURE		TEMPERATURE	REL.HUM.	DENSITY	SPEED OF	WIND DATA	ΤA	INDEX
ALTITUDE MSL FEET	MILLIDARS	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	GM/CUBIC METER	SOUND KNOTS	DIRECTION DEGREES(IN)	SPEEU KNOTS	OF REFRACTION
24000•n	400.7	-31.2	-42.7	30.9	576.8	0.909	251.8	57.5	1.000129
24500.0		-31.8	-42.3	34.4	560.1	605.2	250•4	29.0	1.000127
25000.0	383	-32.8	-42.7	36.2	556.1	_	8.642	61.5	1.000125
25500.0		-34.0	-43.7	36.5	546.9	602.5	546.6	65.0	1.000123
26000.0		-35.3	8.44-	36.7	537.9		549.6	61.9	1.000121
26500.0		-36.5	-42·8	37.0	529.0		249•3	70.6	1.000118
27000.0		-37.8	6.94-	37.3	520.2	-	249.1	72.6	1.000116
27500.0		-39.0	-48.0	37.6	511.7		248•8	73.3	1.000115
28000.0		2.040	0.64-	Ĵ. (	503.3		248.3	/2.1	1.000113
28500.0		140	1.29-	**7*/	493.0		24/42	699	1.000110
20500.0		0.4			276.2	292.	247.5	66.3	1.000106
30000		F + 4 = 1			466.2	700 Y	246.9	65.0	1,000100
30500-0		-45.6			460.3		246.6	9.49	1.000103
31000.0		T-9h-			452.1		245.8	63.4	1.000101
31500.0		-47.9			0.444		245.1	63.0	1.000099
32000.0		0.64-			436.0		544.4	63.1	1.000097
32500.0		2.05			428.1		7.447	4.00	1.00005
33000.0		-51.3			420.5		243.7	63.7	1.000094
33300.0		136.0			V 500	1,075	2440	00.00	1.000092
34500.0		0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			4.00%		מים מים	67.4	0600001
35000.0		1351-8			390.8		244.5	67.7	1.000097
35500.0	238.1	-56.8			383.4		5.55%	67.3	1.000085
36000.0		-57.7			375.8		243.7	65.0	1.000084
36500.0		-56.3			364.6		243.0	62.7	1.000081
37000.6		-57.0			357.1	572.7	242.3	62.4	1.000080
57500.0		-57.7			349.7		241.6	62.1	
30000.0		-58.4			342.5		242.3	65.4	1.000076
38200·Ü		-59.1			355.4		243.2	2 • 69 - 5	1.00001
39000•0		F59.8			32415		244.5	73-1	1.000073
39500.0	190.3	-59.9			320.7		246.1	76.5	1.000071
0.00004	191.6	-59.8			312.9		7.42	79.2	1.000070
•	•	9.66			505.2		248.0	8.8	1.000068
0.00015	•	-54.3			297.3	569.8	7.842	18.4	1.000066
41500.0	•	58.8 1			9.692		248.8	8.9/	1.000064
42000-0	0.4/1	5.00 0.00 0.00 0.00			242.1		248.6	74.7	1.000063
2007	•	7 0 0 L			2.672		4.04.2		1.00000
0.00000	121.0	1.00-1			2609	0.0/0	2.012	71.	000000
9-99664	•	1.00-			**002	3/3.1	7.0.7	1.7,	0000001

\*\* AT LEAST ONE ASSUMED REL/TIVE FRIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL 31 MAR. 81 ASCENSION NO. 53 GEOMETRIC PRESSURL TEMPERATURE REL.HUM.
AIR DEWPOINT DEGREES CENTIGRADE
143.5 -57.8
134.5 -78.9
124.2 -59.6
<b>.</b>
110.0 =50.0
104.8 -58.7
97.8 -60.8
80.2 -62.4
_
_
69.360.2
60.0 -59.2
62.9 -58.3
61.4 -58.4

UPPER AIR DAIA	STATION ALITTUDE 4126.59 FEET ASL 0900010053	• H 0655 HRS MST HOLLOMAL	
	STAFION ALIIT	31 FIAR. H1	ASCENSION 110. 53

STAFION AL	TITUDE 41	26.59 FEET ASL		0800010055	4 · · · ·		SEODE TI	DEODETIC COOKDINATES
31 HAR. H1 ASCENSION NO.	53	0655 MRS MST		HABLE 193	cont'		32. 106.	32.88865 LAY DEG 106.09965 LON DEG
GEUMETRIC	PRESSURE	TEMPEKATURE	REL.HUM.	DENSITY	SPEFU OF	WIND DATE	7.	INDEX
ALTITUDE MSL FEET	MILLIBARS	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT	GM/CUBIC METER	SOUND	DIRFCTION DEGREES(IN)	SPEED KNOTS	OF REFRACTION
64000.0	59.9	-5,8 • 4		97.2	570.9	256.7	18.1	1.000022
64500.n	54.5	-58.5		6.46		251.5	19.5	1.000021
65000.0	5/.1	-58.5		7.76	_	243.9	20.4	1.000021
055000	55.8	-58.6		90.5		236.5	21.9	1.000020
0.00000	24.4	-59.3		88.6		231.2	23.8	1.000020
0.0050a	55.1	-60.2		86.9	_	229•6	25.9	1.000019
0.70005d	51.8	-61.1		85.1		228•2	28.0	1.000019
67500.0	90.6	-62.0		83.5		220.6	56.9	1.000019
68000•n	t,•6t	-61.5		81.5		224.5	24.5	1.000018
ტ <b>იე</b> 200•0	48.2	-59.7		78.7		222 • to	21.9	1.000018
0.000ka	4/•1	-57.9		76.2		554.0	18.3	1.000017
69500.0		-56.2		73.8		226.1	14.7	1.000016
70000		± • ± €		71.5		255.7	13.0	1.000016
71900	20°0	152.6		69.2	578.5	244.5	12.8	1.000015
71500.0	8	7 7 7 1		1.10	0.770	4.002	10 P	1.00001
0.00017	0 4 4 4	150		6000	2.175	5.007	C • C •	C10000-1
77500.0	00.0	134.7		64.6	576.5	204.2	14.1	1.00001
73000.0	30.9	-54.9		62.2		266.3	14.7	1.00014
7.5500.0	38.0	-54+1		60.5		265.2	14.8	1.000013
7400047	37.2	<b>-530</b> •4		58.9	577.6	204.0	14.6	1.000013
74500.0	30.3	-52.6		57.3	578.5	262•₺	13.5	1.000013
75000•1	35.0	-51.B		55.8		261.3	12.5	1.000012
75500.0	34.0	-51.1		<b>₹•</b> †Ç	540.5	260•3	10.9	1.000012
75000.0	33.8	150.3		52.9		260.0	8) • л	1.000012
76500.0		-50.5		51.7		261.1	6.1	1.000012
0.000//	36.3	150.6		50.50 50.50		259.7	4.2	1.000011
7.500.0		# DA		49.5		255.5	æ. 'V	1.000011
100000		T • T • T • T		<b>7•</b> Ω t.		220.6	1.6	1.000011
0.00507	7.00	# TS		47.5		213.9	٠. ا	1.000011
0.00007	7.70	6.05 <u>1</u>		40.5	5×0.7	208•4	2•0	1.000010
0.000	0.07	-50·4		0.5.	-	202.5	2.5	1.000010
3000e	28.1	8-64-		43.9		209.1	5.9	1.000010
5050G	2/•5	21.9.2		8.5°		217.1	3•2	1.000010
0.00L5	50.9	7.84-		41.7		223.5	3.6	1.000009
81500.0	5p•3	1.84-1		40. 40.		231.0	3.9	1.000003
0.00020	25.7	-47.5		39.6		242.1	4•1	1.000099
82500.0	ភំ :	0 • / 4 -		38.6		550.4	4.5	1.000009
85000.0	24.5	D 0 0 1		37.7	-	258∙1	4.7	1.000008
83500.0	24.5	140.5		20.7	57.7.4	5+407	ડ. •	1.000008

STATION ALTITU 31 MAR. 81 ASCENSION NO.	STATION ALTITUDE 4126.59 FEET MSL 31 MAR. 61 ASCENSION NO. 53	26.59 FEE 0655 HRS	I MSL MSI	-	UPPLR AIK UATA 0900010053 HOLLOMAN TABLE 13 cont'	U∧TA S3 Cont'		u£ ODE T I 32• 106•	(JEODETIC COOKUINATES 32.U8865 LAT DEG 106.U9965, LON DEG
GEOMETRIC ALTITUDE MSL FEET		TEMP AIR DEGREES	PRESSURE TEMPERATURE AIR DEWPOINT MILLIUARS DEGREES CENTIGRADE	REL.HUM. PERCENT	REL, HUM, DENSITY PERCENT GM/CUBIC METER	SPEFD OF SOUND KNOTS	WIND DATA DIRECTION SI DEGREES(IN) KI	SPEED KNOTS	INUEX OF REFHACTION
84000.0	23.4	-45.3			35.8	5.18.1	272.3	3.3	1.000008
04500·0	22.9	1-44-7			34.9		277.0	4.1	1.000008
85000·n	22.4	8.44-			34.1		277.0	3.2	1.000008
85500·0	21.9	-45.0			33.4		276.0	2.4	1.000007
86000.	21.4	-45.2			32.7		269.3	1.7	1.000007
86500·0		-45.5			32.0		245.9	2.1	1.900007
87000.0		-45.7			31.3		231.9	2∙8	1.000007
67500.0		-45.9			30.6		224 • 5	3.6	1.000007
86000.0		-45.5			29.9	5A7.8	232.4	5.0	1.000007
68500∙0	19.1	-45.2			29.5		236∙8	6.5	1.000006
89000•0		8.44-			28.5		239.5	8.0	1.000006
0.00569		<b>5.5</b> 1-			27.8				1.000006
9.00006		-4401			27.1				1 • 000006
90200.0		-43.7			26.5				1.000006
91000.0	17.1	4.7.2-			25.9	500.6			1.000006

10N ALTITUDE	4126.59 FEF	<i>5</i> 3	2	MAMDATORY LEVELS	EVELS		SELENTHROOD STEEDER
NR 31	AR. 111 OL TEN MELL MELL MELL MELL MELL MELL MELL ME	MST MST		HOLLOMAN	?		SPANNES SPANNES 32.88865 LAT DEG
.0N 1101 SN	çç.	:		TABLE 14			106.09965 LON DEG
	PRESSURE 6	PRESSURE GEOPOTENTIAL		TEMPERA TURE	KEL . HUM.	AIND DAIA	AlA
	1		AI	DEWPOINT	PERCENT	DIRECTION	SPEED
	MILLIBARS	FEET	DEGREES	CENTIGRADE	!	DEGREES (TN)	KNOTS
	B50.0	4958.	10.6	-3.8	36.	3.5	9.6
	₽9009	6603.	6.8	-5.9	40.	341.3	10.4
	750.0	8330.	2.7	-8.4	. 4 1	282.0	12.3
	700.0	10147.	-1.6	-11-1	48,	269.0	10.4
	650.0	12072.	E - 17 -	-22.7	28.		35.3
	6.009	14126.	-8.5	-26.6	21.		39•8
	550.n	16319.	-13.5	-29.7	, <del>*</del> ,		40.1
	500·0	18672.	-14.1	-33.3	27.		8**
	մ <i>•</i> նՏի	21223.	-24.0	-38.0	, 92,		56.5
	0.004	24002	-31.3	-42.8	31.	251.7	57.6
	350.0	27067	-38.0	-47.1	37.		73.0
	300.0	30496.	-45.7				64.5
	250.n	34403.	-54.7				67.2
	200°	39029.	0.09-				73.8
	175.0	41771.	-58.4				75•3
	150.0	44965.	-57.1			250.0	76•2
	125.0	48725.	-50.6				59.5
	100.0	53317.	<b>-59.8</b>				61.3
	80.0	57861.	-62.4				45.8
	70.0	60578.	-60.4			233.2	36.3
	0.09	63750.	-58.4				18.0
	20.0	67491.	-62.4				25.9
	40.0	72149.	-54.6				14.6
	30.U	78262.	-51.4				1.5
	55∙0	82187.	b.9h-			251.1	4.5
	20.0	67070°	-45.9			224.5	3.4

	DEODETIC COORDINATES	106.49511 LON DEG																		
DATA			REL.HUM.	PERCENT		31.0	40.0	40.0	40.0	0.44	48.0	27.0	23.0	24.0	30.0	34.0	0.64	0.04		
SIGNIFICANT LEVEL DATA	0900030017 JALLEN	TABLE 15	TEMPERATURE	DEWP01N1	DEGREES CENTIGRAIF	-9.1	-3.2	-4.1	-10.2	-12.7	-16.0	-23.0	-24.6	-56.9	-32.6	-36.8	-38.2	T.64-		
SIGNIFI	و م	ΤA	TEMP	AIR	DF. GREES	6.8	0.7	8.7	1.9	-2.1	6.9-	-7.3	-7.3	-10,3	-19,5	-27.9	-31.0	-41.5	1.94-	-51.5
	<b>1</b> 5.		PRESSURE GEOMETRIC	ALTITUDE	MSL FEET	4051.0	4524.1	8.6464	9480.6	10126.9	12053.1	12434.6	12797.1	14697.5	18637.3	22396.8	23963.9	28495.8	30466.4	32504.0
	STATION ALITIUDE 4051.00 FEET MSL 31 MAR. 81	ASCENSION NO. 17	PRESSURE		MILLIBARS	878.6	963.4		745.2							•		328.0		273.0

STALLON ALTITUDE 31 MAR. 81 ASCLNSION 140.	47	051.00 FEET MSL 0655 HRS MST	ET NSL MST	_	UPPER AIR UAT 0900030017 JALLEN TABLE 16	DATA 17		0£00£11C 33.16 106.49	DETIC COGRUINATES 33.16712 LAT DEG 106.49511 LON DEG
CFORE TOTA	DOFOL	100	TEMBERATURE	1	2 1 0 1 0 1	j.,	3	,	i i
AL 11TUDE	3,006 311 1	AIR	DEWPOINT	PERCENT	6M/CUBIC	SOLIN	DIRECTION	SPEED	INDE A
MSL FEET	MILLIUARS	ö	ں	•	METER	KNOTS	DEGREES (1N)	KNOTS	REF HACT 10H
4051.0	878.6	6.8	1-6-	31.0	1091.9	652.3	360.0	1.9	1.000258
4500.0	864.2	9.6	-3.5	39,5	1062.7	655.7	338.3	2.3	1 • 000259
5000.0	848.4	9.8	Z• h-	0.04	1046.9		322.6	•	1.000255
5500.0	B32.7	7.6	-5-1	0.04	1031.2		313.1	3.7	1.000250
0.0000	817.4	2.9	<b>-5.9</b>	40.0	1015.7		307.0	4.6	1.000245
0.500.0	802.3	5.7	<b>-6.8</b>	0.04	1000.5	_	305.0	9.9	1.000241
70007	78/•5	Ω• →	7.7-	0.04	985.5		303.9	æ	•
7500-0	172.9	υ· • • • •	υ·β-	0.04	970.8		291.1	10.3	1.000232
8000s	7.56.7	8° C	١.	0.04	956.2		240.2	12.4	1 • 000228
0.000	7 0 1 1	۲۰۱	5.01-	0.04	0.546		2/0.3	F + + 3	00022
0.00	7.5	•	0.11.0	611,00	4.876		201.0	16.2	٠
0.0056	10.7	•	-11.	0.1	915.0	643.6	530.3	18.4	1.00021/
100001	4004	9-1-	-12.5	43.	901.9	642.2	255.0	20.4	00021
1.0001	0.069	0 1	C.CT.	ָ בּ בּ	80808	040.	C.0C.2	22.6	
11500.0	663.8	1 1 1 1 1 1	7.41	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	8759	639.2	202.1	200	1.000206
12000-0	651.1	6.6	15.0	67.9	850.7	637.0	271.0	7 K	1.000.00
	638.6	-7.3	-23.3	26.3	9 (	1 3	276.0	E - 3E	1.000191
13000.0	620.2	-7.6	-25.0	23.1	821.1	635.0	277.4	36.7	1.000187
13500.0	614.0	-8.4	-25.6	23.4	807.6		278.5	39.1	1.000184
14000.0	602.1	-9.5	-26.2	23.6	794.3		276.4	41.2	•
14500.0	290•4	-10.0	-26.7	23.9	7A1.2	-	274.1	43.2	1.000178
15000.0	578.7	-11.0	-27.3	24.5	768.7		271.0	43.5	1.000175
15500.0	56/.2	-12.2	-28.0	25.2	75 <sub>0</sub> 8	629.5	268•6	43.55	1.000172
0.00001	6.000	-15.5	-28.1	26.0	745.1		201.6	42.	1.000169
0.00021	544.0	14.5	129.4	20.7	733.6	626.b	201.5	42.5	1.000166
17500-0	52.5.4	8-91-	3000		711.1		268.5	1 · C · E · H	
18000-0	515.0	-18.0	-31.6	29.0	700.2		269.4	42.8	
16500.0	502.8	-19.5	-32.4	29.8	p•689		270.0	43.5	1.000156
19000•0	492.5	-20.3	-33.2	30.4	67B.4		270.3	45.2	1.000153
19500.0	η• <b>2</b> θη	-21.4	-34.0	30.9	667.4	5	5,993	48.1	1.000151
2000n.ŋ	4.72.4	-22.5	-34.8	31.4	9.959	5	560.5	તં	1.000148
20200-0	464.7	-23.7	-35•6	32.0	642.9	19	96.	55.3	1.000146
21000·¢	453.2	-54.8	36.	32.5	635.5		252∙6	•	1.000143
21500.0	6.5.44	-25.9	-37.3	33.0	625.2	612	252.9	•	1.000141
22000.0	7 • + C +	2.	-38.2	33.6	615.2		• • •	62.5	1.000138
0.0052	1.024	200	53.	35•U	605.1		יול מיח	63.8	1.000136
2.5000.0 3.5500.0	10.00 10.00	129.1	13.90 t	39.68	594.8	000	254.1	65.3	1.000134
10000	0.0(1)	•	ソ・ロウー	0 * †	0.400		,	≎•00	0

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

	GEODETIC COORDINATES	33.16712 LAT DEG	106.49511 LON DEG
MANDATORY LEVELS	0900030017	JALLEN	TABLE 17
	STATION ALTITUDE 4051.00 FEET MSL	31 MAR. 61 0655 HRS MST	ASCENSION 1.0. 17

PRESSURE G	PRESSURE GEOPOTENTIAL	TEM	<b>TEMPERATURE</b>	KF1 .HUM.	WIND DATA	)ATA
MILLIHARS	FEET	AIR DEGREES CE	DEWPOINT CENTIGRADE	<u>.</u>	DIRECTION DEGREES(TN)	SPEED KNOTS
850.1	49464	7.8	-4-1	40.	323.9	6.5
0.000	6582.	5.6	6•9-	, 0,	304.8	7.0
750.0	8303.	2.5	6•6-	40	274.5	13.7
V-002	10118.	-2.1	-12.7	r t	254.7	20.9
6.50 • 0	12033.	6.9-	-16.0	·Ω†	272.3	31.3
0.009	14074.	3.3	-26.3	24.	276.0	41.5
550 · n	16263.	-14.0	-29.1	26.	267.1	4<.2
500.0	18613.	-19.5	-32.6	30.	270.1	0.44
1,50.0	21153.	-25.5	-36.8	33.	252.0	59.1
0 • 00 fr	23926.	-31.0	-38.2	.67	554.6	68.1
350.0	26989.	-38.1	-45.9	43.	255.9	67.3
300.0	30409.	-46.7			247.8	73.0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES 33,16712 LAT DEG 106.49511 LON DEG			
0.4.T.A	REL.HUM. PERCENT 17.0	244.0 244.0 244.0 22.0 37.0	3.00 3.00 3.1.0 3.1.0
SIGNIFICANT LEVEL DATA 0900030018 JALLEN TABLE 18	ERAT DEW CEN	115.4 115.4 122.5 132.5 134.3	0.0.5.4.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
SIGNIFIO O AA TA	TEMPI AIR DEGREES 13.9	11.9 9.8 9.8 -1.7 -4.7 -19.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1		4553.4 4989.9 9206.1 10169.7 12024.7 14227.8 18701.7	211363.0 211363.0 24126.1 37526.9 34429.5 37386.2 39049.9 39049.9 39049.9 45070.4 45070.4 55366.5 55366.5 55144.1 67782.5 70776.8 72284.0
STATION ALTITUDE 4051.00 FEET MSL 31 MAR. 61 ASCENSION NO. 18	PRESSURE MILLINARS 879.6	877.0 856.0 726.2 700.0 651.8 598.2 500.0	

TEMPERATURE REL.HUM, DENSITY REES CENTIGRADE METER METER ACCUBIC METER ACCUBIC METER ACCUBIC METER ACCUBIC METER ACCUBIC METER ACCUBIC	SPEFD OF SOUNTY KNOTS, CON CONTROL CON CONTROL CON CONTROL CON CONTROL CON CONTROL CON	WINL DATA DIRECTION SPEED 270.0 1.9 286.4 1.6 310.5 332.7 332.7 1.7 323.0 4.5 323.0 4.5 223.0 6.3 273.5 8.1 259.6 113.8 259.6 113.8 259.6 113.8 273.5 26.1 250.5 273.5	Inuex OF REFRACTION 1.000250 1.000248 1.000248 1.000240 1.000237 1.000237 1.000225 1.000221
862.4         113.9         -10.7         17.0         1066.3           862.4         11.4         -5.3         34.0         1029.3           834.0         8.6         -5.3         34.0         1044.3           814.5         7.4         -6.4         36.9         1014.6           803.4         6.2         -6.4         36.9         1014.6           803.4         6.2         -6.4         44.1         97.8           724.6         1.5         -9.1         44.1         97.8           725.6         1.5         -9.1         44.1         97.8           725.6         1.5         -10.1         44.1         97.8           725.6         1.5         -10.1         42.6         95.8           725.6         1.6         -2.7         -6.8         97.8           725.6         1.6         -2.2         -10.1         42.3         916.9           725.7         -3.0         -11.8         35.2         873.4         875.4           655.8         -5.4         -2.2         -14.7         -22.6         24.4         819.0           655.8         -6.4         -2.2         2.6         4.4	650.4 657.3 657.3 657.3 657.3 657.3 647.3 647.3 647.5 640.5 637.5		
865.4 11.4 -3.9 34.0 1057.2 834.0 845.4 1069.3 845.6 85.5 1029.3 8134.0 8.6 -5.8 34.0 1044.3 8134.0 8.6 -5.8 34.0 1044.3 8134.0 8.6 -5.8 34.0 1044.6 805.4 6.2 -6.9 38.3 1000.1 759.6 2.7 -6.8 4.2 39.7 985.8 759.6 2.7 -1.4 -1.4 -1.4 93.1 93.1 1000.1 759.6 2.7 -1.4 -1.4 93.1 93.2 887.9 95.2 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0	655 655 655 655 655 655 655 655 655 655		
049.7       9.8       -5.3       34.0       1044.3         834.0       7.4       -6.4       36.9       1014.6         803.4       6.2       -6.9       38.3       1000.1         774.0       3.0       -7.5       39.7       985.8         774.0       5.0       -7.5       39.7       985.8         774.0       5.0       -7.5       39.7       986.8         774.0       1.5       -9.4       44.0       914.4         759.6       1.5       -10.1       42.6       944.4         731.8       -7.5       -10.4       42.6       944.4         732.8       -7.7       -11.4       -14.5       36.1       944.4         732.1       -7.6       -7.5       14.0       944.4         732.1       -7.4       -7.2       14.0       944.4         734.5       -7.4       -14.5       -22.2       14.0       944.4         734.6       -7.2       -16.6       22.2       87.3       96.2         652.4       -4.7       -7.2       -23.7       26.8       76.4       91.0         653.8       -6.4       -7.2       -23.2       84.6       <	655 655 655 655 655 655 655 655 655 655		
834.0 8.6 -5.8 35.5 1029.3 818.5 1029.3 818.5 7.4 6.2 -6.9 38.3 1000.1 784.6 2.7 -6.9 38.3 1000.1 784.6 2.7 -6.9 38.3 1000.1 785.6 2.7 -6.9 38.3 1000.1 785.6 2.7 -6.9 38.3 1000.1 785.6 2.7 -6.9 38.3 1000.1 785.6 2.7 -6.9 44.4 785.7 1000.1 785.8 -6.9 -6.9 44.4 785.7 1000.1 785.8 -6.9 1000.1 785.8 1000.1	6534.5 641.7 641.7 642.9 641.5 641.5 641.5 641.5 641.5 641.5 641.5		
803.4 803.4 803.4 803.4 803.4 803.4 803.4 774.0 759.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 745.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	6537.5 641.5 644.7 644.7 640.5 640.5 639.5		
10.0   10.0	655.1 651.7 640.3 642.5 642.5 641.5 639.5		
803.4       6.2       -6.9       38.3       1000.1         786.5       5.0       -7.5       39.7       985.8         759.6       2.7       -6.8       42.3       916.9         745.6       1.5       -9.4       44.0       944.4         731.8       -3       -10.1       42.3       916.9         716.1       -1.4       -11.8       42.3       916.9         716.1       -2.7       -11.8       42.3       916.9         716.1       -2.7       -11.8       42.3       916.9         716.1       -2.2       -16.6       32.2       873.0         652.4       -4.7       -22.0       24.1       875.9         652.8       -4.7       -22.0       24.1       815.0         652.9       -6.4       -22.0       24.1       815.0         652.9       -6.4       -22.0       24.1       815.0         652.0       -6.4       -22.0       24.1       815.0         652.0       -6.4       -22.0       24.1       815.0         651.7       -3.9       -25.0       24.1       815.0         615.4       -11.7       -25.0       27.1	651.7 648.9 646.1 646.1 647.5 641.5 640.5 639.5		
786.5 5.0 -7.5 39.7 985.8 774.0 2.0 -7.5 39.7 985.8 774.0 2.7 -6.8 42.6 971.8 759.6 1.5 -9.4 44.0 971.8 759.6 1.5 -10.1 45.4 99.6.0 971.8 715.1 -2.2 -10.1 45.4 99.6.0 971.0 715.1 -2.2 -10.1 42.3 99.6.9 916.9 716.1 -2.2 -10.6 32.2 887.9 652.4 -4.7 -22.0 24.1 887.9 652.4 652.4 -4.7 -22.0 24.1 887.9 652.6 652.4 -4.7 -22.0 24.1 887.9 653.0 652.6 -5.5 -6.4 -23.7 25.3 873.7 792.8 673.7 -22.6 27.0 772.0 550.0 -10.5 -23.7 25.3 870.5 819.0 650.0 -10.5 -23.7 25.3 870.5 819.0 550.0 -10.5 -23.7 25.8 772.0 772.0 550.0 -10.5 -22.0 27.0 772.0 572.0 572.0 -27.0 772.0 572.0 772.0	650.3 647.5 647.5 647.5 640.5 639.5 637.5		
774.0 3.8 -8.1 41.1 971.8 759.6 2.7 -8.8 42.6 958.0 745.6 1.5 -9.4 44.0 944.4 731.8 -7.7 -11.8 42.6 958.0 745.6 1.5 -9.4 44.0 944.4 731.8 -7.7 -11.8 36.1 95.2 915.9 704.5 -1.4 -14.5 36.1 95.2 915.9 704.5 -1.4 -14.5 36.1 95.2 915.9 704.5 -1.4 -14.5 36.1 95.2 915.9	648.9 646.1 646.1 646.1 641.5 640.5 639.5 638.5		
759.6 2.7 -0.8 42.6 958.0 731.8 -3 -10.1 45.4 40.0 944.4 731.8 -3 -10.1 45.4 931.0 731.8 -2.2 -10.1 45.4 931.0 704.5 -1.4 -114.5 36.1 996.9 704.4 652.1 -2.2 -16.6 32.2 843.7 916.9 652.1 -2.0 -2.0 -18.3 29.5 873.7 652.4 -4.7 -22.0 24.1 846.0 652.4 -4.7 -22.6 24.4 813.7 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 652.4 723.5 524.7 -22.6 27.7 752.0 758.7 752.0 524.3 -15.5 -22.6 27.7 752.0 752.0 524.3 -15.5 -22.6 27.7 752.0 752.0 524.3 -15.5 -23.2 59.0 772.0 772.0 524.1 -19.3 -15.5 -22.6 52.7 752.0 772.0	647.5 646.1 642.5 642.5 641.5 639.5 637.5		. ને ને ને ને <b>ને</b> ને
745.6 1.5 -9.4 44.0 944.4 731.8 -3 -10.1 45.4 931.0 71b.1 -7 -11.8 42.3 916.9 704.5 -1.4 -14.5 36.1 902.3 691.2 -2.2 -16.6 32.2 887.9 675.0 -3.0 -18.3 29.5 873.7 652.4 -4.7 -22.0 24.1 846.0 652.4 -4.7 -22.0 24.1 846.0 652.4 -7.2 -23.7 25.8 819.0 615.4 -7.2 -23.7 25.8 819.0 615.4 -7.2 -23.7 25.8 792.8 590.0 -10.5 -25.6 27.7 758.7 550.0 -10.5 -25.6 27.7 758.7 550.0 -10.5 -25.6 27.7 757.1 554.3 -18.0 -27.4 28.4 745.7 554.3 -18.0 -27.4 28.4 745.7 554.3 -19.3 -31.8 31.7 691.5 49.3 -20.5 -32.6 32.9 680.0 49.4 -21.7 -33.8 35.9 659.0 49.5 -24.6 -24.6 -35.2 36.8 648.8 45.6 -24.6 -35.2 36.8 648.8 45.6 -24.6 -35.3 34.8 6615.8	646.1 642.5 642.5 641.5 640.5 639.5		اجت خ
731.8  731.8  731.8  716.1  716.1  716.1  716.1  716.1  716.1  716.1  716.1  716.1  716.1  716.1  716.2  716.2  716.2  716.6  716.2  716.6  716.6  716.7  716.7  716.8  716.9  71	642.5 642.5 641.5 640.5 639.5		
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JEODETIC COOKDINATES	33.16712 LAT DEG	106.49511 LON DEG	INDEX	OF OFFICE OF	KEFRAC 1 10M	1.000129	1.000127	1.000125	1.000123	1.000120	-	-	-	1.000112		-	1.000105	-	7	~	-	-	-	1.000092	-		_	1.000084	1.000082		1.000076	-	~	-	1		-	_	1.000062	~	1.000059
UEODET	33	901	ĄL	SPEED	V 1084	61.6	65.9	64.0	65.1	66.3	67.7	68.7	69.5	7.07	70.7	70.1	<b>4.69</b>	68.5	0.69	70.5	72.3	74.4	10.0	76.5	76.6	76.7	76.9	77.0	76.4	74.6	73.4	72.7	71.9	71.0	70.0	68.5	67.0	0.99	65.5	6.40	64.3
			ALNU DATA	DIRECTION	LEGREESTIN	258•4	257-1	526.4	555.9	255.3	254.7	255.3	251.7	0.007	247.6	247.3	247.5	248.0	248.4	248.7	248•6	548.0	5.642	250.2	251.8	252.7	253.0	253•1	252+4	20102 20100	250.2	250.0	8.64Z	6.642	250.0	250.3	5-20∙€	250 • H	251.0	2.102	251.1
ر 18	+	cou <b>t</b> .	Speed of	SOLIND	S I ONY	606.1	6n4.7								242.0			546.6	5A5.0	5H5.5	581.9	580.3		27/0		-				569.3		570.1	569.3				575.5				274.0
UPPER AIR UNTA 0909030018	JALLEN TABLE 10	I ABLE 19		GM/CUBIC MCTEB	MF   F.R	576.3	566.6	557.0	547.5	538.3	529.2	550.5	5116	8.700	1000	477.6	469.5	461.5	453.3	445.2	437.3	429.5	441.9	414	399.7	391.5	383.5	375.6	367.9	3500 et	342.7	334.2	327.1	318.4	308.4	298.7	290.8	285.0	278.9	2.2.2	265.7
ر			REL.HUM.	PERCENT		32,0	31.9	31.7	31.6	31,5	31.4	31.2	31.1	***	17.8**	12.0**	6.1**	**6.																							
T MSL	MS1		<b>TEMPERATURE</b>	DEWPOINT	LEN'I GNAUE	-42.3	43.4	<b>5.55</b>	*45.5	-46.5	-47.6	0.0	/ • 6 ti-	2.10	-57.4	-61.5	4-19-	-86.8																							
51.00 FEET MSL	918 HRS		1EMP	AIR	UCGREES	-31.1	-32+3	-33.4	-34.5	-35.7	-36.8	5 · / · ·	1.99.1	40.0	-42.7	-43.9	-45.2	4.94-	-47.6	-48.8	-50.0	-51.5	156.5	54.9	-56.0	-56.7	-57.5	-58.2	150 · 0	-59.0	-59.3	0.6,1-	9.65-	-69.0	-57.3	-55.6	-55.0	-55.8	156.4 0.00	7.00	<b>-</b> 56•1
7	18		PRESSUPE	MIN LINABL	MILLIDARS	4004	391.8	383.3	375.1	367.0	356.0	354.3	345.0	1000	321.4	314.2	307.2	300.4	293.4	286.7	280.0	273.6	261.1	255.1	249.2	243.2	23/.4	231.8	0.000	215.6	210.4	205.4	200.5	195.7	191.1	180.5	182.1	17/.8	173.7	0.207	4.091
NOI	31 MAR. B1 ASCENSION NO	10.4	GFOME TRIC	AL FITUDE	שאר דנהו	24000.0	24500.0	25000•0	25500.0	26000 · 0	26500.0	Ú*UU0/2	0.00012	28500.0	0.00087	29500.0	30000	30200-0	31000.0	31500.0	32000.0	32500.0	3.56.00.0	34000.0	34500.0	35000.0	35500·n	36000.0	300001	5/200.0	34000.0	38500.0	39000.0	39500.0	400000	40200.0	41000.0	41500.0	0.0007t	1.00024	43000.0

\*\* AT LEAST ONE ASSUMED RELATIVE HIMIDITY VALUE WAS USEN. IN THE INTIRPOLATION.

STALION ALTITUDE 40 31 MAR. 81 ASCENSION NO. 18		51.nO FEFT MSL 0918 HRS MST	r nst. MST	_	UPPER AIN DAIDA 0900030016 JALLEN TABLE 19 CON1	Dula 16 cont'		JEODE 11 33. 106.	JEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALIITUDE MSL FEET	PRESSURE MILLIDARS	TEMPE AIR DEGREES (	TEMPERATURE R DEWPOINT EFS CENTIGRAGE	REL HUM. PERCENT	DENSITY GM/CUBIC MFTER	SPEFD OF SOUND	WIND DATA DIRECTION SI	TA SPEED KNOTS	INDEX OF REFERENTION
							יייי פיייי פיייי		
0.000	157.9	-55.9			253.1		251.1	62.5	1.000056
44500.0	154.1	6.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00			247.1	-	251.2	61.1	1.000055
U-0005+	150.5	155.			241.1		251.4	60.0	1.000054
45500.n	140.9	-56•1			255.8		252•1	60.0	1.000053
46000.0	140.4	150.0			250.7		5.52.4 6.50.5	0.09	1.000051
47000-0	130.6	-57.5			220.4	57.0	248.2	2.70	1.000030
47500.0	135.4	-58.0			216.0		246.2	67.0	1.000048
48000.0	130.2	-58.5			211.3		243.5	0.69	1.000047
46500.0	127.1	-59.0			206.7		240∙0	71.1	1.000046
49000-0	124.0	-59.4			202.2		240-1	71.6	1.000045
49500.	121.1	6.65-			197.8		241.4	70.5	1.000044
0.00000	118.2	160.4			193,5		242.6	69.5	1.000043
51000.0	112.6	-61.4			185.2	56.7.0	248.6	70.1	1.000042
51500.0	109.9	-61.8			181.2		251.3	70.8	1.000040
52000.0	107.3	-62.3			177.3		252.2	72.0	1.000039
52500.0		-62.1			172.8		253.0	73.2	1.000038
53000.0	102.2	-61.8			168.4		253.7	72.1	1.000038
53500.0		161.5			164.1		254.2	68.5	1.000037
54500.0	0 4 5	-61.5			1.001		255-11	65.6	1.000035
55000.0		-61.5			150.5	546 8	0.000	18.0 18.0	1.000034
55500.0	1,06	-61.2			148.6		255.1	55.7	1.000033
25000.0	80.3	-60.2			144.4		254 • 1	54.9	1.000032
56500.0	80.2	-59.5			140.3		253.2	54 • 1	1.000031
57000.0	84.1	-58•1			136.3		252•0	51.7	1.000030
0.00575	84.1	-5/•1			132.5		250.7	6.84	1.000030
0.00000	2.00	1.05			128.7		249.5	40.6	1.000029
0.0000C	C•0/	55.			125.1		248.7	41.3	1.000028
59500.0	7.60/	154.0			121.5	576.7	246.4	1.75 2.15	1.000027
0.00000	72.9	, C			116.4		244.01.2	25.40	1.000026
0.00000	71.2	-56.2			114.3		54147	20.7	1.000025
61000.n	6.9.5	-57.1			112.0		236.3	16.2	1.000025
01500.F	67.8	-58.0			109.8		227.5	11.9	1.000024
0.00029	2.09	6.85-			107.6		220•7	10.2	1.000024
62500 · n	9 <del>4 ,</del> 9	8.0°1			105.5		220 • 7	10.5	1.000023
63000 n	0.1.2 2.1.3	-61.7			40.5		25000	10.0	1.000003
nacca	•				*• TO T	560.5	4.077	10.7	1.000023

~	106.49511 LON DEG	WING DATA INDEX	SPEED	_	231.6 15.9 1.000022	18.9 1.000022	22.7 1.00002	26.5	30.3	33.1	35.9	· ~	1.000018	1.000017	1.000017	1.000016	1.000016	1.000016	1.00015	1.000015	310000·I	100001		1.000013	1.000013	1.000013	1.000012	1.000012	1.00001	1.000011	1.000011	1.000010	1.00010	1.000010	1.000010	1.000010	1.000009	1.00000	1.000009	000000
UPPER AIR DATA 090003001 <del>0</del> Jallen	TABLE 19 cont'	DENSITY SPEFU OF	IC SOLIND		99.4 545.3	97.4 564.1	5 562.8	27 17 17 17 17 17 17 17 17 17 17 17 17 17		6.675	572.6												60.6 577.1			56.4 577.2			50.0 5.00		_				-				9.8	< L
		REL. HIM.	PERCENT	CENTIGRADE																																				
051.n0 FEET MSL 0918 HRS MST		TEMPERATURE	AIR	DEGHEES	-62.6	-63.5	7.79-	-6.3.2	-61.2	-59.1	-57.1	-55.1	-54.0	-54.5	-54.5	-54.7	-54.9	-55.2	-55.0	-54.5	V • V · ·	153.0	-53.7	-53.7	-53.6	-53.6	-53.3	-52.6	151.4	-50.8	-50.2	9.64-	2.61-	0.64	2.07	-48.6	-48°4	-48.1	6-44-	
<b>3</b> 9	• 02	PRESSURE		MILLIUARS	60.1	85	57.2		54.5		51.9		49.5	40.3	47.2				7	6-17		1.95			30.4		7.45		32.4			30.2		28.9	2002	27.6	20.9	20.3		7,5
STATION ALITIUDE 31 MAR. 81	ASIENSION NO	GE UINE TRIC	ALIITUDE	MSL FEET	0.000+9	0.00540	65000.0	0.5500.0	600000	66500.n	67000.0	67500.0	58000°C	68500.0	69000.0	0.00560	70000.0	70500.0	21000-0	71500.0	0.00027	73000.0	73500.0	74000.0	74500.0	75000.0	75500.0	16000-0	72000-0	77500.0	78000.0	78500.0	79000-0	79500.0	90000	80500.0	81000.0	81500.n	42000.0	0.00303

STATION ALTITUDE 4051.00 FEET MSL  31 MAR. 81  ASCENSION NO. 18  PRESSURE GEUPOTI  PRESSURE GEUPOTI  MILLIBARS FEET  A50.0 650.0 120  550.0 120  550.0 120  550.0 120  550.0 120  550.0 120  650.0 120  650.0 120  650.0 120  650.0 120  650.0 120  650.0 120  650.0 120  650.0 658  650.0 658  650.0 658  70.0 658  70.0 658  70.0 658  70.0 658  70.0 658  70.0 678	I T T T T T T T T T T T T T T T T T T T	AIR	### ### ##############################	EVEL S  18  18  19  19  19  19  19  19  19  19	WILU DAIA DIRECTION SIDEGREES(TN) K 309-8 12- 254-3 12- 254-3 12- 254-3 12- 254-3 12- 259-9 41- 259-9 41- 259-9 68- 259-9 68- 259-9 68- 259-7 71- 259-7 71- 259-1 69- 259-1 17- 259-1 17- 259-5 17- 259-7 71- 259-7 71-	JEODETIC COOKDINATES 33.16712 LAT DEG 33.16712 LAT DEG 106.49511 LON DEG 106.49511 LON DEG 106.49511 LON DEG 106.49511 LON DEG 107.8 107.9 108.8
25.20		-47.6				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.